

PRODUCT CATALOG  
REAGENTS AS RAW MATERIAL FOR IVD SYSTEMS

creative technologies



rek<sup>biotech</sup>om  
High Quality Raw Materials  
for IVD Manufacturing Industry

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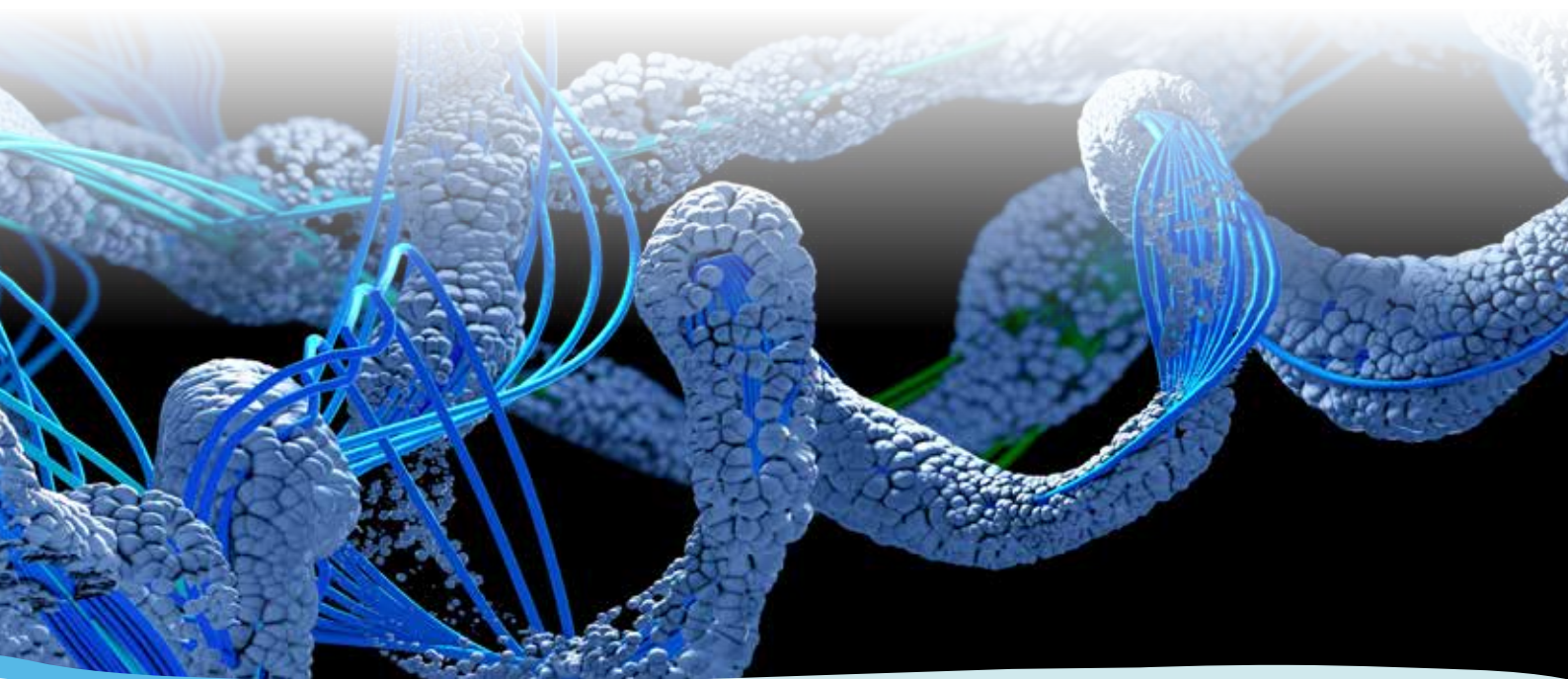
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## About us

Rekom Biotech is a biotechnology company focused on the design and manufacturing of **IVD reagents for *in vitro* diagnostics**. We offer high quality, validated and versatile raw material, suitable for use in the various platforms available on the market, among others: second and third generation ELISAs, immunochromatography, chemiluminescence, Western blot, dot-blot, etc.

We are committed to ensure the highest quality level in the design and manufacturing of our IVD reagents, following a rigorous quality control for each lot produced. Our quality system is certified by **ISO 9001** and **ISO 13485** standards. Besides, as we are manufacturers, we can try to adapt our products to your needs, if any problem arises during the evaluation of our products.

Our portfolio includes a range of **recombinant proteins** for **humans** and **animals** that are designed to diagnostic both **infectious diseases** and **allergies**. These proteins can be utilized for various purposes, such as serving as raw material for antibody tests, acting as internal controls for antigen tests, and even functioning as immunogens to create antibodies. To ensure maximum effectiveness, these proteins are produced through a variety of different expression systems.

Our goal is to improve the antigenicity of protein, enhance sensitivity, and reduce potential specificity problems. Additionally, we provide many of these recombinant proteins in monobiotinylated and HRP-conjugated.

In particular, we have specialized in the design and production of next-generation proteins: chimeras or proteins composed of multiple epitopes, which have improved their antigenic properties, such as sensitivity and specificity. Furthermore, another main advantage of the multi-epitope chimeric proteins is avoiding the use of protein mixtures in your assay. The limited number of binding sites and the different affinities of proteins for these sites could result in reproducibility issues.

In our portfolio you will also find: **polyclonal antibodies**, which can be used as raw material for an antigen test, or as an internal calibrator for an antibody test; and an **immunoassay blocker** for anti-cross-reactive carbohydrate determinants (CCD) antibodies, with which anti-CCD antibodies will be kidnapped, and the specificity of the assay will increase.

We also offer **custom-made proteins and antibodies** service to support the R&D of IVD manufacturers that want to develop a new assay and cannot find the right reagent.

### MISSION

In Rekom Biotech our mission is to offer high quality IVD reagents to be used for *in vitro* diagnosis of human and animal infectious diseases and allergies.

Our working philosophy gives priority to the establishment of alliances and collaborations which will allow us to set up new prototypes and develop new products.

### VISION

Rekom Biotech wants to become a reference supplier of IVD reagents for human and animal infectious diseases and allergies.

We like to work closely with IVD manufacturers to understand their problems and provide them with products totally adapted to their needs. In Rekom Biotech, we support our customers through the development process to overcome the challenges of applying the recombinant proteins to a specific platform.

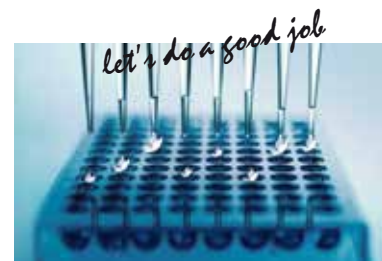
We want to maintain our competitiveness through constant innovation in our products. In order to achieve this goal, we encourage continued training and creativity in our team. We give capital importance to participation and collaboration in scientific projects.



## Our facilities

We are located in Spain, Granada, in the PTS, a health sciences scientific park.

We are surrounded by universities, hospitals, research centers, which we have collaborated with many times, and many important companies.





## Product performance

Our recombinant proteins are stored in **highly versatile** buffers, allowing their accessibility to the different IVD platforms in the market. Otherwise, our technical team will do its best to adapt the protein to your platform. Trust in us. We will find the best solution for your system.

Many of our IVD reagents have been **validated** by in-house ELISA assays, with pre-validated positive and negative specimen sera.

Our "ready-to-use" **conjugated proteins** (monobiotinylated and HRP-conjugated), can be used with multiple objectives: plate orientation, nanoparticle and gold binding, as detectors in immunocapture and immunometric formats. In addition, formats such as ELISA-capture or ELISA-DAS (Double Antigen Sandwich), can be used directly to reveal your IVD test.

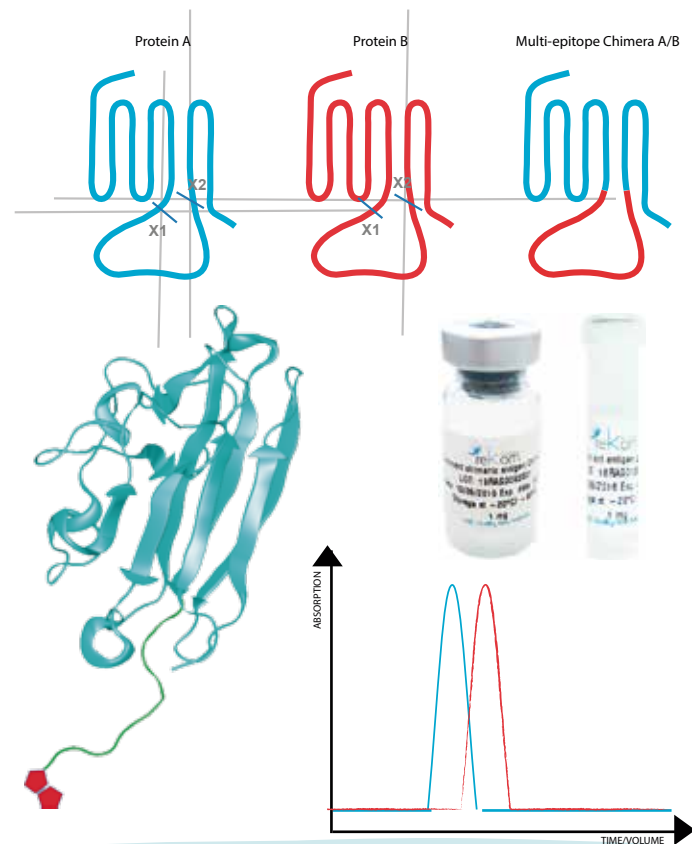
We guarantee the Lot-to-Lot Consistency (**reproducibility**) of our products. We are certified in ISO 9001 and ISO 13485, which means that all our procedures are protocolized, and we comply with the quality requirements that any company would expect to find in an IVD reagents supplier.

Rekom Biotech offers a **broad portfolio** of IVD reagents. We have many recombinant proteins for IVD manufacturing industry, aimed at the identification of diagnosis of **humans** and **animals** infectious diseases, and **allergies**. We also have **antibodies** for the development of your antigen test, or as an internal calibrator for your antibody test. Besides, we offer **sorbents** for using in *in vitro* diagnostic.

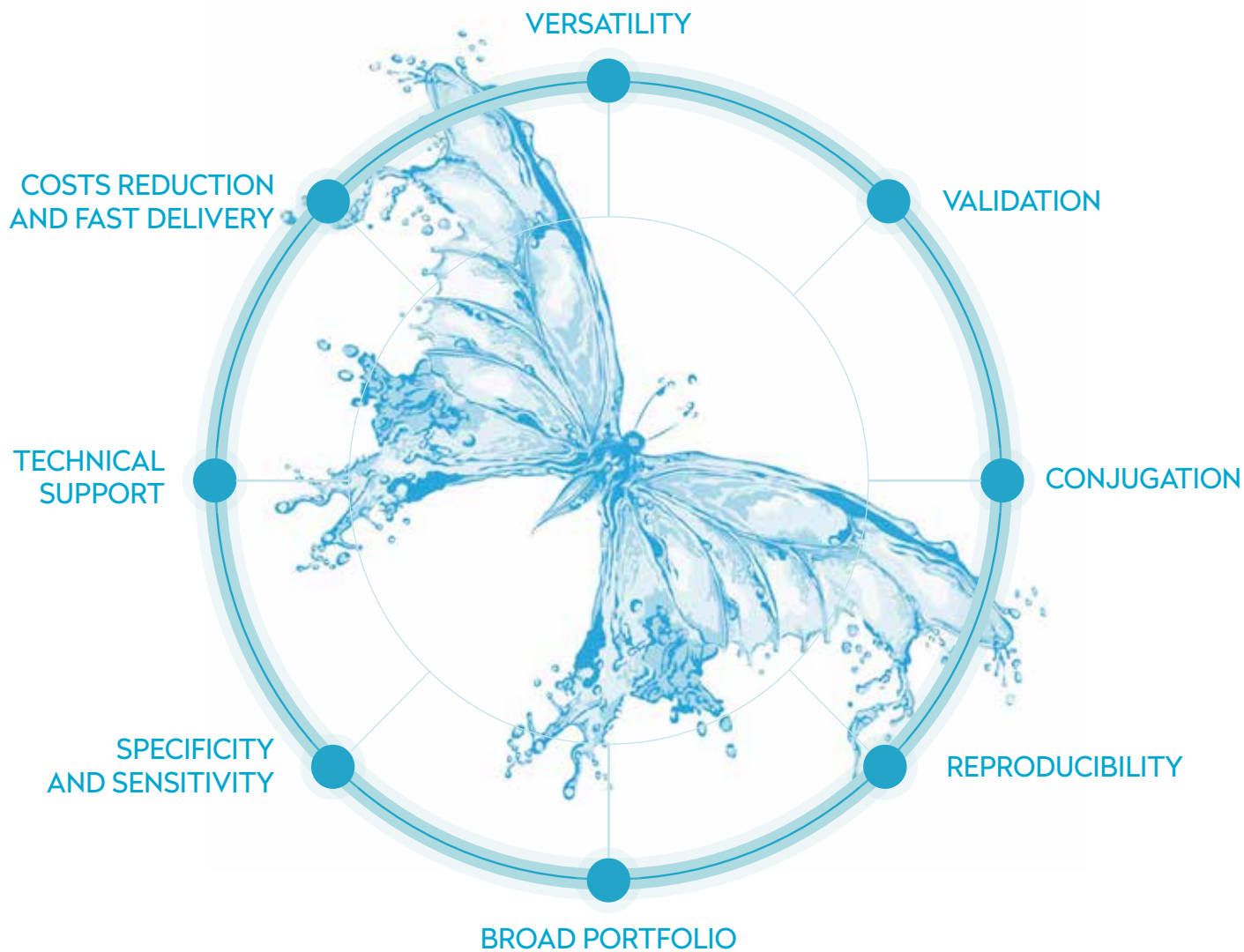
At Rekom Biotech, we have specialized in the design and production of next-generation proteins, recombinant chimeric or multi-epitope proteins, which have improved their antigenic properties such as **sensitivity and specificity**. In other words, these are last-generation IVD reagents which will make your IVD test stand out in the market.

We offer customized **technical support**. Given our extensive experience in the sector and our great technical capacity, we can provide you with whatever you need, even if it is not in the market.

Focused on **reducing** the complexity of **logistics** and the **shipping costs**, we lyophilize all our IVD reagents. The lyophilization significantly reduces the cost of transport, which also does not require dry ice anymore, and facilitates the entry of our products to a greater number of countries, without the need of intermediaries.









# HUMAN INFECTIOUS DISEASES



Rekom Biotech offers a wide range of **recombinant proteins** for *in vitro* diagnosis of **human infectious diseases**, including those of zoonotic origin. These proteins will allow you to manufacture your **antibody tests** with a raw material of high quality and reproducibility, viable for any existing diagnostic platform on the market. Given our extensive experience in the sector, we can advise you on what best suits your project. Trust us!

We design and produce recombinant proteins for human infectious diseases in the areas of parasitology, virology, bacteriology, and mycology.



PARASITES



VIRUSES



BACTERIA



FUNGI

# PARASITES



ChimToxo1  
ChimToxo1

KMP11  
KMP11

1F8  
1F8

K39  
K39

ChimChagas2  
ChimChagas2

p35 (GRA8)  
p35 (GRA8)

FRA  
FRA

p29 (GRA7)  
p29 (GRA7)

p30 (SAG1)  
p30 (SAG1)

ChimChagas1  
ChimChagas1

ChimChagas3  
ChimChagas3

B13  
B13

## CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>1F8*</b>	<b>RAG0003</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Calcium-binding flagellar antigen
<b>B13*</b>	<b>RAG0103</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	CA-2 surface antigen, oka. Ag2, PEP2, TcR34
<b>FRA*</b>	<b>RAG0005</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Cytoskeleton assoc. antigen, oka. Ag1, JL7, H49
<b>ChimChagas1*</b>	<b>RAG0093</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimChagas2*</b>	<b>RAG0094</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimChagas3*</b>	<b>RAG0096</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	<b>RAG0096BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimChagas3 biotinylated

**\*Specific Antibodies:** Polyclonal antibody against Chagas (p. 54)

## LEISHMANIOSIS (*Leishmania infantum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>K39</b>	<b>RAG0061</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Parasite kinesin-related antigen
	<b>RAG0061BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	K39 biotinylated
<b>KMP11</b>	<b>RAG0038</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Kinetoplastid membrane antigen of 11 kDa

## TOXOPLASMOSIS (*Toxoplasma gondii*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>p29 (GRA7)*</b>	<b>RAG0083</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
<b>p30 (SAG1)*</b>	<b>RAG0011</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major surface antigen
	<b>RAG0030</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	p30 (SAG1) in <i>P. pastoris</i>
<b>p35 (GRA8)*</b>	<b>RAG0084</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
<b>ChimToxo1*</b>	<b>RAG0058</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (SAG1 and GRA8)

**\*Specific Antibodies:** Polyclonal antibody against GRA7/GRA8 and SAG1 (p. 54)

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



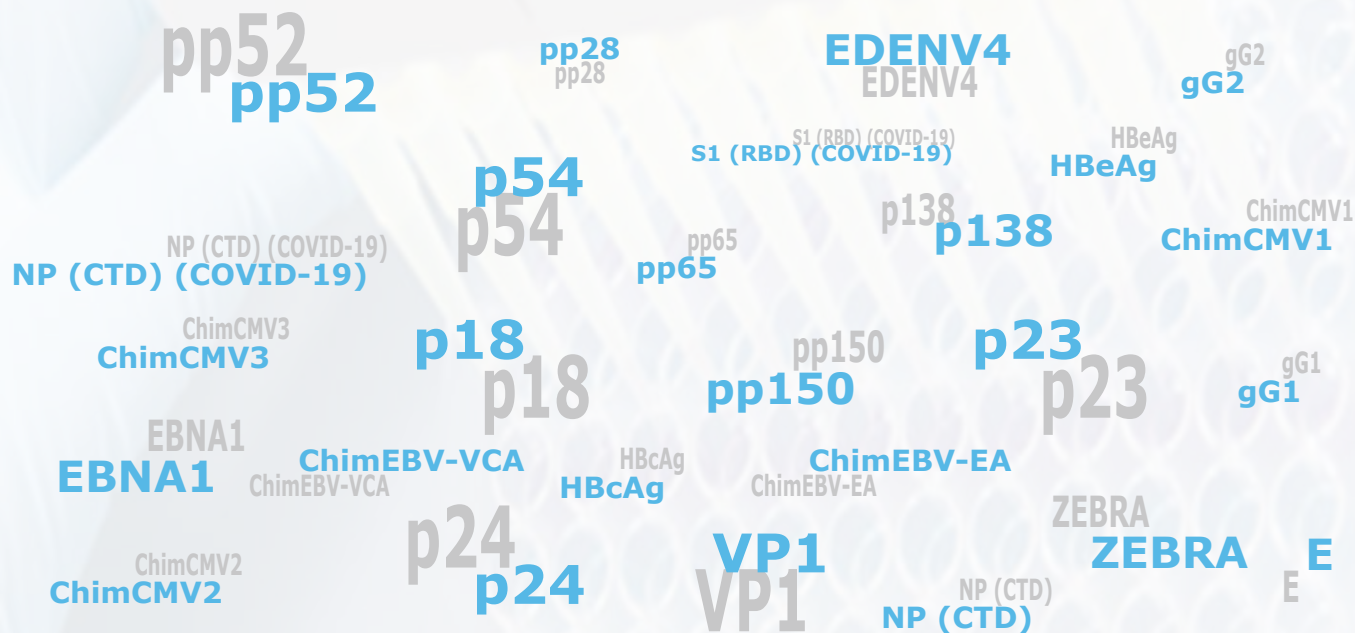
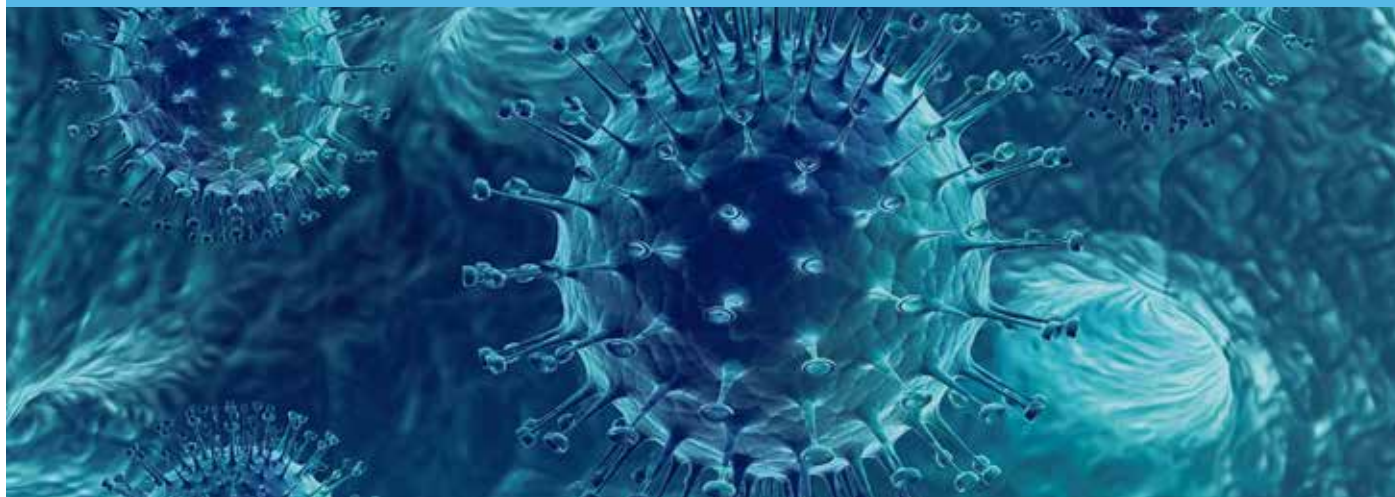
Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)



# VIRUSES





AIDS (HIV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p24	RAG0057	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral capsid antigen
	RAG0057BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	p24 biotinylated
COVID-19 (SARSCoV-2)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
NP (CTD)	RAG0071	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	SARS-CoV-2 nucleoprotein C-terminal domain
S1 (RBD)	RAG0074	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	SARS-CoV-2 S1 Receptor Binding Domain (RBD)
COXSACKIEVIRUS ( <i>coxsackievirus B1</i> )				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
VP1	RAG0028	<i>E. coli</i>	WB, DB, IE, DE	Viral polyprotein. Tucson
CYTOMEGALOVIRUS (CMV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
pp52*	RAG0090	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	DNA polymerase processivity subunit
	RAG0090BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	pp52 biotinylated
pp65*	RAG0016	<i>E. coli</i>	WB, DB, IE, DE	Viral tegument phosphoprotein
pp150* <i>new!</i>	RAG0091	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral matrix phosphoprotein
	RAG0059	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
ChimCMV1*	RAG0109	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0109BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	ChimCMV1 biotinylated
ChimCMV2*	RAG0110	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0110BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	ChimCMV2 biotinylated
ChimCMV3*	RAG0018 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
pp28	RAG0004 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Phosphoprotein
*Specific Antibodies: Polyclonal antibodies against pp52, pp65 and pp150 (p. 54)				

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay

LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)

## DENGUE

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>EDENV4</b>	<b>RAG0070</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Dengue Virus envelope protein

## EPSTEIN-BARR VIRUS (EBV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>EBNA1</b>	<b>RAG0007</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Late nuclear antigen
	<b>RAG0047</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE	
<b>p18</b>	<b>RAG0049</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral capsid antigen
	<b>RAG0049BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	p18 biotinylated
<b>p23</b>	<b>RAG0002</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral capsid antigen
<b>p54</b>	<b>RAG0035</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Early antigen
<b>p138</b>	<b>RAG0033</b>	<i>E. coli</i>	WB, DB, IE, DE	Early antigen
<b>ZEBRA</b>	<b>RAG0023</b>	<i>E. coli</i>	WB, DB, IE, DE	Transcription factor, early antigen
<b>ChimEBV-VCA</b>	<b>RAG0081</b> new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimEBV-EA</b>	<b>RAG0082</b> new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

## GENITAL HERPES produced by HSV-2 (Herpes simplex virus type 2)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>gG2</b>	<b>RAG0087</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Contains the immunogenic regions of the glycoprotein G from the HSV-2

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
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Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
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Top product (Satisfaction guarantee)

HEPATITIS B (HBV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
HBcAg*	RAG0056	E. coli	WB, DB, IE, DE, CLIA, LF	Hepatitis B virus core antigen assembled as capsid-like particles
HBeAg	RAG0062	E. coli	WB, DB, IE, DE, CLIA, LF	HBV e antigen that comprises the 10 aa pre-core sequence plus the 149-residue assembly core
*Specific Antibodies: Polyclonal antibodies against HBcAg (p. 54)				
SARS-CoV (2003)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
NP (CTD)	RAG0080	E. coli	WB, DB, IE, DE, CLIA, LF	SARS-CoV nucleoprotein C-terminal domain. <b>92.5% identity with NP COVID-19.</b>
ORAL HERPES produced by HSV-1 (Herpes simplex virus type 1)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gG1  new!  new!	RAG0017	E. coli	WB, DB, IE, DE, CLIA, LF	Recombinant mature glycoprotein G for HSV-1 gG1 biotinylated
	RAG0017BIOT	E. coli	WB, DB, CE, NP, PO	
	RAG0105	P. pastoris	WB, DB, IE, DE, CLIA, LF	
WEST NILE VIRUS (WNV)				
NAME	CAT NUMBER			
E	RAG0001	E. coli	WB, DB, IE, DE	Envelope glycoprotein
	RAG0065	P. pastoris	WB, DB, IE, DE, CLIA, LF	

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)

# BACTERIA






## ANAPLASMOSIS (*Anaplasma phagocytophilum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>p44</b>	<b>RAG0026</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>A. phagocytophilum</i>

## BORRELIOSIS or LYME DISEASE

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>ospC</b>	<b>RAG0042</b> ( <i>Ba</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. afzelii</i>
	<b>RAG0043</b> ( <i>Bb</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. burgdorferi</i>
	<b>RAG0034</b> ( <i>Bg</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. garinii</i>
<b>flagellin B</b>	<b>RAG0054</b> ( <i>Ba</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. afzelii</i> 41 kDa flagelline B protein
	<b>RAG0055</b> ( <i>Bb</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. burgdorferi</i> 41 kDa flagelline B protein
	<b>RAG0072</b> ( <i>Bg</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. garinii</i> 41 kDa flagelline B protein
<b>VlsE</b> 	<b>RAG0022</b> ( <i>Bg</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. garinii</i>
	<b>RAG0027</b> ( <i>Bb</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. burgdorferi</i>
	<b>RAG0102</b> ( <i>Ba</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major variable Surface antigen for <i>B. afzelii</i>

## LEPTOSPIROSIS (*Leptospira interrogans*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>LipL32</b>	<b>RAG0077</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major outer membrane antigen, lipoprotein
	<b>RAG0063</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	LipL32 in <i>P. pastoris</i>
<b>LipL21</b>	<b>RAG0100</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	The second most abundant protein <i>L. interrogans</i>

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
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Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)

## ATYPICAL PNEUMONIA (*Mycoplasma pneumoniae*)


NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>P1</b>	<b>RAG0053</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	<i>Mycoplasma pneumoniae</i> P1 adhesin protein
<b>P30</b>	<b>RAG0041</b> <small>new!</small>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	<i>Mycoplasma pneumoniae</i> P30 adhesin protein

## TUBERCULOSIS (*Mycobacterium tuberculosis*, *Koch's bacillus*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>CFP10 *</b>	<b>RAG0050</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Culture filtrate antigen of 10 kDa
<b>CFP10:ESAT6*</b>	<b>RAG0060</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

**\*Specific Antibodies:** Polyclonal antibody against Tuberculosis (p. 54)

## SYPHILIS (*Treponema pallidum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>TmpA</b>	<b>RAG0073</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
<b>Tpp15</b>	<b>RAG0009</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
	<b>RAG0009BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Tpp15 biotinylated
<b>Tpp17</b>	<b>RAG0008</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
	<b>RAG0008BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Tpp17 biotinylated
<b>Tpp47</b>	<b>RAG0010</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
	<b>RAG0010BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Tpp47 biotinylated
<b>ChimSyphilis1</b>	<b>RAG0046</b> 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (Tpp17 and Tpp47)
	<b>RAG0046BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimSyphilis1 biotinylated
<b>ChimSyphilis2</b>	<b>RAG0064</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (Tpp15 and TmpA)
	<b>RAG0064BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimSyphilis2 biotinylated

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised

\*under availability, for liquid format



Top product (Satisfaction guarantee)

## TYPHOID FEVER (*Salmonella typhi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Flagellin</b>	<b>RAG0032</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	The flagella antigen of <i>Salmonella typhi</i>
<b>OMP</b>	<b>RAG0021</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane protein

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation

Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)

# FUNGI





CANDIDIASIS ( <i>Candida albicans</i> )				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Enolase	RAG0044	<i>E. coli</i>	WB, DB, IE, DE	Antigen corresponding to the glycolytic enzyme 2-phosphoD-glycerate hydrolase

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)


# ANIMAL INFECTIOUS DISEASES



Rekom Biotech also offers **recombinant proteins** for *in vitro* diagnosis of **animal infectious diseases**. Our goal is to offer the *in vitro* diagnostic sector for **veterinary** use, a wide catalog of recombinant proteins for diseases produced in pets and farm animals. Take a look at our portfolio!



### Acquired feline immunodeficiency syndrome (FIV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>gp40</b>	<b>RAG0066</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Transmembrane subunit of the 150 kDa envelope glycoprotein
<b>p24</b>	<b>RAG0013</b> 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Feline immunodeficiency virus (FIV) core antigen p24
<b>p15</b>	<b>RAG0015</b> <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Matrix protein
For diagnosis of the disease in cats.				

### Anaplasmosis (*Anaplasma phagocytophilum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>p44</b>	<b>RAG0026</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>A.phagocytophilum</i>
For diagnosis of the disease in dogs, cats, horses, sheep and cattle.				

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation




Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format




Top product (Satisfaction guarantee)

## BABESIOSIS (PIROPLASMOSIS)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>BcMSA1</b>	<b>RAG0020</b> (Bc)	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Merozoite Surface Antigen for <i>Babesia canis</i>
	<b>RAG0020BIOT</b>	<i>P. pastoris</i>	WB, DB, CE, NP, PO	BcMSA1 biotinylated
<b>Bc28.1</b> 	<b>RAG0029</b> (Bc)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	The major member of the Bc28 multigenic family
<b>BcSA1</b>	<b>RAG0012</b> (Bc)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	BcSA1 surface antigen for <i>Babesia canis</i>
<b>ChimBc</b>	<b>RAG0040</b> (Bc)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	Recombinant chimeric antigen for <i>Babesia canis</i>
<b>ChimBg</b> <b>new!</b>	<b>RAG0045</b> (Bg)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	Recombinant chimeric antigen for <i>Babesia gibsoni</i>

For diagnosis of the disease in dogs.

## BORRELIOSIS or LYME DISEASE

NAME 	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>ospC</b>	<b>RAG0042</b> (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. afzelii</i>
	<b>RAG0043</b> (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. burgdorferi</i>
	<b>RAG0034</b> (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. garinii</i>
<b>flagellin B</b>	<b>RAG0054</b> (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. afzelii</i> 41 kDa flagellin B protein
	<b>RAG0055</b> (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. burgdorferi</i> 41 kDa flagellin B protein
	<b>RAG0072</b> (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. garinii</i> 41 kDa flagellin B protein
<b>VlsE</b>	<b>RAG0022</b> (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. garinii</i>
	<b>RAG0027</b> (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. burgdorferi</i>
	<b>RAG0102</b> (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major variable Surface antigen for <i>B. afzelii</i>

For diagnosis of the disease in dogs, horses and occasionally in beef cattle.

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)



### CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>1F8*</b>	<b>RAG0003</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Calcium-binding flagellar antigen
<b>B13*</b>	<b>RAG0103</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	CA-2 surface antigen, oka. Ag2, PEP2, TcR34
<b>FRA*</b>	<b>RAG0005</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Cytoskeleton assoc. antigen, oka. Ag1, JL7, H49
<b>ChimChagas1*</b>	<b>RAG0093</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimChagas2*</b>	<b>RAG0094</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimChagas3*</b>	<b>RAG0096</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	<b>RAG0096BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimChagas3 biotinylated

**For diagnosis of the disease in dogs.**

**\*Specific Antibodies:** Polyclonal antibody against Chagas (p. 54)

### DIROFILARIASIS (*Dirofilaria immitis*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>ChimDiT33</b>	<b>RAG0014</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant quimeric antigen for <i>Dirofilaria immitis</i>

**For diagnosis of the disease in dogs, cats, ferrets, cattle, foxes, coyotes, sea lions.**

### EHRlichiosis (*Ehrlichia canis*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>gp19</b>	<b>RAG0025</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Glycoprotein gp19 of <i>Ehrlichia canis</i>

**For diagnosis of the disease in dogs.**

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation




Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)

## LEISHMANIOSIS (*Leishmania infantum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>K39</b>	<b>RAG0061</b> 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Parasite kinesin-related antigen
	<b>RAG0061BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	K39 biotinylated
<b>KMP11</b>	<b>RAG0038</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Kinetoplastid membrane antigen of 11 kDa

For diagnosis of the disease in dogs and cats.

## LEPTOSPIROSIS (*Leptospira interrogans*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>LipL32</b>	<b>RAG0077</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major outer membrane antigen, lipoprotein
	<b>RAG0063</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	LipL32 in <i>P. pastoris</i>
<b>LipL21</b>	<b>RAG0100</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	The second most abundant protein <i>L. interrogans</i>

For diagnosis of the disease in dogs, beef cattle, pigs and horses.

## NEOSPOROSIS (*Neospora caninum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>NcGRA7</b>	<b>RAG0024</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	<i>Neospora caninum</i> dense granule antigen GRA7
	<b>RAG0024BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	NcGRA7 biotinylated

For diagnosis of the disease in warm-blooded mammals, mainly dogs and cattle

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)

### TOXOPLASMOSIS (*Toxoplasma gondii*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>p29 (GRA7)*</b>	<b>RAG0083</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
<b>p30 (SAG1)*</b>	<b>RAG0011</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major surface antigen
	<b>RAG0030</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	p30 (SAG1) in <i>P. pastoris</i>
<b>p35 (GRA8)*</b>	<b>RAG0084</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
<b>ChimToxo1*</b>	<b>RAG0058</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (SAG1 and GRA8)

**For diagnosis of the disease in warm-blooded animals.**

**\*Specific Antibodies:** Polyclonal antibody against GRA7/GRA8 and SAG1 (p. 54)

### TUBERCULOSIS (*Mycobacterium tuberculosis*, Koch's bacillus)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>CFP10 *</b>	<b>RAG0050</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Culture filtrate antigen of 10 kDa
<b>CFP10:ESAT6*</b>	<b>RAG0060</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

**For diagnosis of the disease in cattle.**

**\*Specific Antibodies:** Polyclonal antibody against Tuberculosis (p. 54)

### WEST NILE VIRUS (WNV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>E</b>	<b>RAG0001</b>	<i>E. coli</i>	WB, DB, IE, DE	Envelope glycoprotein
	<b>RAG0065</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	

**For diagnosis of the disease in birds and mammals, common in horses.**

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)

# ALLERGIES



Rekom Biotech also offers **recombinant proteins** for *in vitro* diagnosis of allergies (type I allergic disorders).

A wide variety of protean **allergens** from our environment are proteins coming from food, dust mites, pollens from trees and grasses; and other natural products. These environmental proteins come primarily from non-pathogenic eukaryotic organisms (animals and plants) and are essentially innocuous. However, in some cases, our immune system reacts to them, unintentionally causing damage to our tissues and vital organs that occasionally generates serious systemic pathologies.

The development of **recombinant allergens** provides new opportunities for the improvement of the diagnosis of immunoglobulin E (IgE) mediated allergies, given that they present capacity for binding these antibodies in a comparable way to natural allergens and generally show good reactivity in *in vitro* **diagnostic test**. For this reason, recombinant allergens are of a great interest to both the research field and the development of new diagnostic test for **IgE quantification** in the clinical routine. The measure of circulating IgE antibodies specific for a determined allergen provides information about the patient sensitisation to this allergen. In general, low IgE levels would indicate a low probability of developing a clinical disease, while high IgE levels would show a high correlation of developing disease.

**Our recombinant allergens have been evaluated** by means of an external study developed by a group of prestigious allergists at the Virgen de la Macarena Hospital in Seville (Spain), using samples from positive and negative patient sera. In these tests, specific IgE has been determined by the skin prick test (SPT) and the UniCAP® test. From these assays, we obtained incidence data for each antigen, which we later compared with that described in the literature, obtaining a very good correlation. Through an adequate diagnostic test incorporating our proteins, it would be possible to determine the allergen to which the patient is reacting and the levels of specific IgE to this allergen. This quantification will allow to



predict more accurately the chance of the patient developing an allergy, and thus the need for appropriate treatment.

We design and produce recombinant proteins for allergies caused by domestic animals and indoor allergens, pollen, mold and food. Take a look at our portfolio!



DOMESTIC ANIMALS  
AND INDOOR



POLLEN



MOLD



FOOD



# INDOOR



Can f 5  
**Can f 5**

Equ c1  
**Equ c 1**

Der f 2  
**Der f 2**

**Fel d 1**  
Fel d 1

Der p 10  
**Der p 10**

Lep d 2  
**Lep d 2**

ANIMAL				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Fel d 1	RAL0023 🏆	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Cat ( <i>Felis domesticus</i> ). Uteroglobin (chain 1)
Can f 1	RAL0016 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Dog ( <i>Canis familiaris</i> ). Lipocalin
	RAL0026	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	
Can f 5	RAL0014 🏆	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Dog urine ( <i>Canis familiaris</i> ). Arginine esterase, prostatic kallikrein
Equ c 1	RAL0007	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Domestic Horse ( <i>Equus caballus</i> ). Lipocalin
	RAL0022	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	
DUST MITES				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Der f 2	RAL0013	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For American house dust mite ( <i>Dermatophagoides farinae</i> ). NPC2 family
Der p 10	RAL0015	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For European house dust mite ( <i>Dermatophagoides pteronyssinus</i> ). Tropomyosin
Lep d 2	RAL0008	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Storage mite ( <i>Lepidoglyphus destructor</i> ). NPC2 family

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)



# POLLEN



**Art v 1**  
**Art v 1**

**Art v 3**  
Art v 3

**Bet v 1**  
Bet v 1

Bet v 4  
**Bet v 4**

**Par j 2**  
Par j 2

Pla a 1  
**Pla a 1**

Pla a 3  
**Pla a 3**

Sal k 1  
**Sal k 1**

**Phl p 5a**  
**Phl p 5a**

Phl p 12  
**Phl p 12**

Phl p 5b  
**Phl p 5b**

**Ole e 5**  
Ole e 5

**Ole e 1**  
**Ole e 1**

Ole e 2  
**Ole e 2**

Phl p 1  
**Phl p 1**

**Phl p 7**  
**Phl p 7**



EUROPEAN WHITE BIRCH (Betula verrucosa)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Bet v 1	RAL0011	E. coli	WB, DB, IE, DE, CLIA, LF	Pathogenesis-related protein (PR-10)
Bet v 4	RAL0009	E. coli	WB, DB, IE, DE, CLIA, LF	Polcalcin
LONDON PLANE TREE (Platanus acerifolia)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Pla a 1	RAL0019	P. pastoris	WB, DB, IE, DE, CLIA, LF	Invertase inhibitor
Pla a 3	RAL0021	E. coli	WB, DB, IE, DE, CLIA, LF	Non-specific lipid transfer protein type 1 (LTP)
MUGWORT POLLEN (Artemisia vulgaris)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Art v 1	RAL0005 🏅	P. pastoris	WB, DB, IE, DE, CLIA, LF	Defensin-like protein
Art v 3	RAL0006 🏅	E. coli	WB, DB, IE, DE, CLIA, LF	Non-specific lipid transfer protein type 1 (LTP)
	RAL0048	P. pastoris	WB, DB, IE, DE, CLIA, LF	
OLIVE TREE (Olea europaea)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Ole e 1	RAL0012	P. pastoris	WB, DB, IE, DE, CLIA, LF	Proteins similar to Ole e 1
Ole e 2	RAL0010	E. coli	WB, DB, IE, DE, CLIA, LF	Profilin
Ole e 5	RAL0047	E. coli	WB, DB, IE, DE, CLIA, LF	Superoxide dismutase [Cu-Zn]

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation

Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)

### PELLITORY-OF-THE-WALL (*Parietaria judaica*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Par j 2</b>	<b>RAL0020</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Phospholipid transfer protein (LTP)

### RUSSIAN THISTLE (*Salsola kali*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Sal k 1</b>	<b>RAL0018</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Pectin methylesterase

### TIMOTHY GRASS POLLEN (*Phleum pratense*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Phl p 1</b>	<b>RAL0001</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Beta-expansin
<b>Phl p 5a</b>	<b>RAL0003</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Unknown
	<b>RAL0003BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Phl p 5a biotinylated
<b>Phl p 5b</b>	<b>RAL0017</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Unknown
<b>Phl p 7</b>	<b>RAL0002</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Polcalcin
<b>Phl p 12</b>	<b>RAL0004</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Profilin

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)



# MOLD



Alt a 1  
Alt a 1

Alt a 1  
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## ALTERNARIA PLANT ROT FUNGUS (*Alternaria alternata*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Alt a 1</b>	<b>RAL0025</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Unknown

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich ELISA  
 NP: nanoparticles binding  
 PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)

# FOOD



Tri a 19  
Tri a 19

Ara h 9  
Ara h 9

Ara h 2  
Ara h 2

$\alpha$ S1-casein  
 $\alpha$ S1-casein

$\beta$ -lactoglobulin  
 $\beta$ -lactoglobulin

$\alpha$ S2-casein  
 $\alpha$ S2-casein

$\alpha$ -lactalbumin  
 $\alpha$ -lactalbumin

Gal d 1  
Gal d 1

Gad c 1  
Gad c 1

$\kappa$ -casein  
 $\kappa$ -casein

$\beta$ -casein  
 $\beta$ -casein

Mal d 3  
Mal d 3

CEREAL				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Tri a 19	RAL0053	<i>E. coli</i>	WB, DB, IE, DE	For Wheat ( <i>Triticum aestivum</i> ). Omega-5 gliadin, seed storage protein
	RAL0053BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Tri a 19 biotinylated
FISH				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Gad c 1	RAL0035	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Baltic cod ( <i>Gadus callarias</i> ). Beta-parvalbumin
EGG				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Gal d 1	RAL0033	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Chicken egg ( <i>Gallus domesticus</i> ). Ovomucoid
MILK				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
$\alpha$ S1-casein	RAL0027	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk ( <i>Bos domesticus</i> ). Casein, oka. Bos d 9
$\beta$ -casein	RAL0029	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk ( <i>Bos domesticus</i> ). Casein, oka. Bos d 11
$\beta$ -lactoglobulin	RAL0032	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk ( <i>Bos domesticus</i> ). Beta-lactoglobulin, oka. Bos d 5
$\alpha$ -lactalbumin	RAL0031	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk ( <i>Bos domesticus</i> ). Alpha-lactalbumin, oka. Bos d 4
$\alpha$ S2-casein	RAL0028 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk ( <i>Bos domesticus</i> ). Casein, oka. Bos d 10
$\kappa$ -casein	RAL0030 new!	<i>E. coli</i>	WB, DB, IE, DE	For Caw milk ( <i>Bos domesticus</i> ). Casein, oka. Bos d 12

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)

PEANUT, GROUNDNUT				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Ara h 9	RAL0049 new!	P. pastoris	WB, DB, IE, DE, CLIA, LF	For peanut, groundnut ( <i>Arachis hypogaea</i> ). Nonspecific lipid-transfer protein type 1
Ara h 2	RAL0040 new!	P. pastoris	WB, DB, IE, DE, CLIA, LF	For peanut, groundnut ( <i>Arachis hypogaea</i> ). Conglutin (2S albumin)
ROSACEOUS				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Mal d 3	RAL0039	E. coli	WB, DB, IE, DE, CLIA, LF	For Apple ( <i>Malus domestica</i> ). Non-specific lipid transfer protein type 1 (nsLTP1)

WB: Western Blot  
DB: Dot Blot  
IE: Indirect ELISA  
DE: positive control in direct ELISA  
CLIA: Chemiluminescent Immunoassay  
LF: Lateral Flow  
CE: Capture ELISA  
DAS: Double antigen sandwich  
NP: nanoparticles binding  
PO: plate orientation



Pack size: 0.1 mg\*; 1 mg; bulk  
Format: liquid; lyophilised  
\*under availability, for liquid format



Top product (Satisfaction guarantee)



## External validation

Our bioallergens have been evaluated in an external study carried out at a Spanish hospital by a group of allergists with positive and negative serum samples from patients. The evaluation of the recombinant allergens has been performed by means of an *in-house* ELISA assay. In this immunoassay, it has been determined the presence of specific IgE in sera that had previously been validated by skin prick testing (SPT) and the UniCAP® test. The sera panels specific for each group of allergens were composed of 25 positive sera and 10 total IgE negative specimen sera.

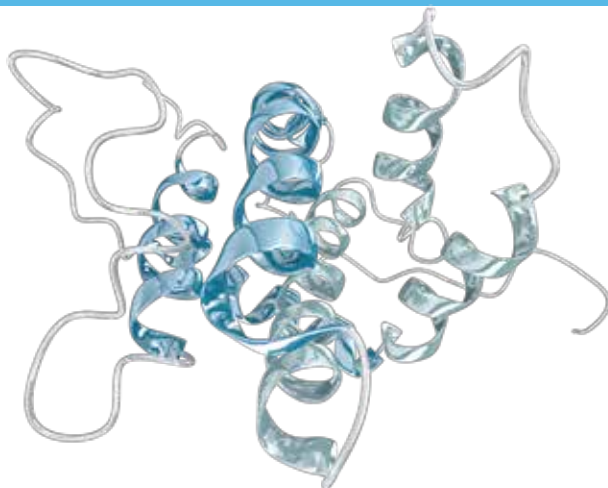
The following chart shows the good correlation found between the incidence rates described in bibliography and the incidence rates found in the external study carried out by the hospital with our bioallergens:



GROUP	ALLERGEN	CAT NUMBER	INCIDENCE RATES	
			BIBLIOGRAPHY	HOSPITAL VALIDATION
Timothy grass	Phl p 1	RAL0001	70%-100%	92%
	Phl p 5a	RAL0003	60%-93%	60%
	Phl p 5b	RAL0017	60%-93%	56%
	Phl p 7	RAL0002	10%	44%
	Phl p 12	RAL0004	20%	36%
Olive	Ole e 1	RAL0012	70%	100%
	Ole e 2	RAL0010	20%-47%	40%
Animal epithelial	Can f 1	RAL0016	90%	84%-100%
	Fel d 1	RAL0023	90%	76%-84%
Dust mites	Der f 2	RAL0013	98%	78%
	Der p 10	RAL0015	5.6%	5.6%
	Lep d 2	RAL0008	>75%	72%
Russian thistle	Sal k 1	RAL0018	66.66%	67.67%

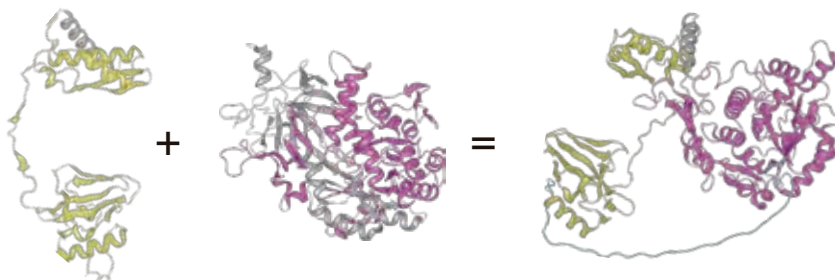
ONGOING RESEARCH FOR OTHER ALLERGEN GROUPS

# CHIMERAS



At Rekom Biotech, we use computational methods to access structural models of antigenic molecules. This allows us to select specific antigenic domains from different proteins. We then combine them using long, short, flexible, or rigid linkers to enable simultaneous interaction of every epitope with its corresponding paratope. By avoiding steric hindrance, by using the appropriate linker, two or three different antibodies can interact with the multi-epitope molecule, **increasing sensitivity**. Our chimeric multi-epitope proteins are also **highly specific** as we select domains that differentiate this microorganism from its counterparts.

In addition, using multi-epitope chimeric proteins has another significant benefit of **eliminating the need for protein mixtures in assays**. When using protein mixtures, the limited number of binding sites and varying affinities of proteins for these sites may lead to issues with reproducibility.



NAME	CAT NUMBER	SOURCE	APPLICATION	DISEASE / MICROORGANISM
<b>ChimBc</b>	<b>RAG0040</b> ( <i>Bc</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Babesiosis (or piroplasmosis)
<b>ChimBg</b>	<b>RAG0045</b> ( <i>Bg</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
<b>ChimChagas1</b>	<b>RAG0093</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Chagas ( <i>Trypanosoma cruzi</i> )
<b>ChimChagas2</b>	<b>RAG0094</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
<b>ChimChagas3</b>	<b>RAG0096</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
	<b>RAG0096BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	
<b>ChimCMV1</b>	<b>RAG0109</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Cytomegalovirus
	<b>RAG0109BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	
<b>ChimCMV2</b>	<b>RAG0110</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
	<b>RAG0110BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	
<b>ChimCMV3</b>	<b>RAG0018</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
<b>ChimDiT33</b>	<b>RAG0014</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dirofilariasis ( <i>Dirofilaria immitis</i> )
<b>ChimEBV-EA</b>	<b>RAG0082</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Epstein-Barr virus
<b>ChimEBV-VCA</b>	<b>RAG0081</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
<b>ChimSyphilis1</b>	<b>RAG0046</b> 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Syphilis ( <i>Treponema pallidum</i> )
	<b>RAG0046BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	
<b>ChimSyphilis2</b>	<b>RAG0064</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
	<b>RAG0064BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	
<b>ChimToxo1</b>	<b>RAG0058</b>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Toxoplasmosis ( <i>Toxoplasma gondii</i> )
<b>CFP10:ESAT6</b>	<b>RAG0060</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Tuberculosis ( <i>Mycobacterium tuberculosis</i> )
<b>VlsE</b>	<b>RAG0027</b> ( <i>Bb</i> ) 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Lyme borreliosis
	<b>RAG0022</b> ( <i>Bg</i> )	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	

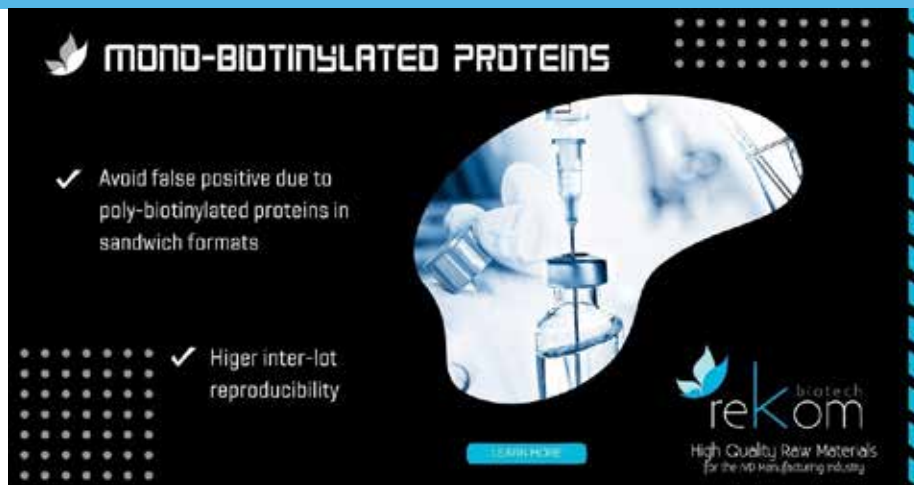
WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation

Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)

# MONOBIOTINYLATED PROTEINS



In Rekom Biotech we have developed a product line of monobiotinylated proteins, offering some of our catalog numbers with a biotin in their C-terminus. This molecule allows the specific interaction of biotinylated proteins to streptavidin.

Our biotinylated proteins are bonded to a BCCP-tag in the C-terminus, with a lysine residue which is enzymatically biotinylated by the E. coli biotin ligase BirA. This single-point labelling technique has many advantages for commonly used binding assays:

- ▶ The biotinylation only happens on the lysine residue of the BCCP tag.
- ▶ There is NO interference with the target protein's natural binding activities.
- ▶ The protein orientation is uniform when immobilized on a streptavidin-coated surface such as nanoparticles.



AIDS (HIV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>p24</b>	<b>RAG0057BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Viral capsid antigen
CANINE BABESIOSIS (CANINE PIROPLASMOSIS)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>BcMSA1</b>	<b>RAG0020BIOT</b>	<i>P. pastoris</i>	WB, DB, CE, NP, PO	Merozoite Surface Antigen for <i>Babesia canis</i>
CHAGAS ( <i>Trypanosoma cruzi</i> )				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>ChimChagas3</b>	<b>RAG0096BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Recombinant chimeric antigen
CYTOMEGALOVIRUS (CMV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>pp52</b>	<b>RAG0090BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	DNA polymerase processivity subunit
<b>ChimCMV1</b>	<b>RAG0109BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Recombinant chimeric antigen
<b>ChimCMV2</b>	<b>RAG0110BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Recombinant chimeric antigen
Epstein-Barr virus infection (EBV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>p18</b>	<b>RAG0049BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Viral capsid antigen
Leishmaniasis ( <i>Leishmania infantum</i> )				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>K39</b>	<b>RAG0061BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Parasite kinesin-related antigen

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation

Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)

## NEOSPOROSIS (*Neospora caninum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>NcGRA7</b>	<b>RAG0024BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Nc dense granule antigen GRA7

## ORAL HERPES produced by HSV-1 (*Herpes simplex virus type 1*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>gG1</b>	<b>RAG0017BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Recombinant mature glycoprotein G for HSV-1

## TIMOTHY GRASS POLLEN (*Phleum pratense*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Phl p 5a</b>	<b>RAL0003BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Phl p 5a

## SYPHILIS (*Treponema pallidum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Tpp15</b>	<b>RAG0009BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Membrane lipoprotein
<b>Tpp17</b>	<b>RAG0008BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Membrane lipoprotein
<b>Tpp47</b>	<b>RAG0010BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Membrane lipoprotein
<b>ChimSyphilis1</b>	<b>RAG0046BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	R. chimeric antigen (Tpp17 and Tpp47)
<b>ChimSyphilis2</b>	<b>RAG0064BIOT</b>	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	R. chimeric antigen (Tpp15 and TmpA)

## CEREAL

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>Tri a 19</b>	<b>RAL0053BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	Omega-5 gliadin, seed storage protein

WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation

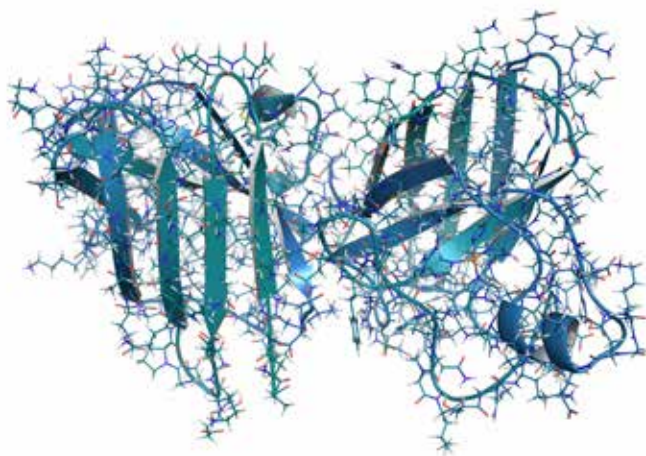
Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



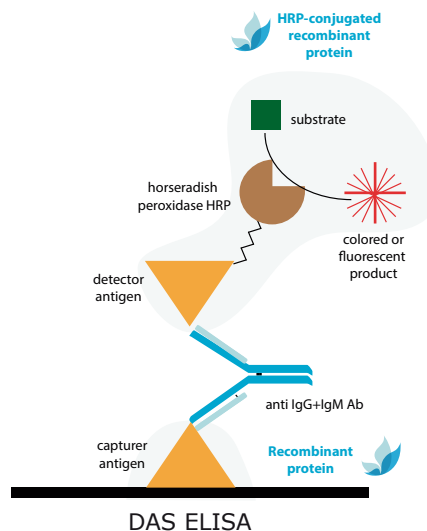
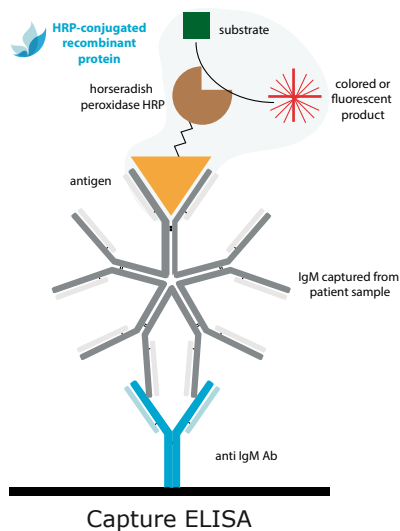
Top product (Satisfaction guarantee)



# HRP-CONJUGATED PROTEINS



In case you want to develop a Capture ELISA or a Double Antigen Sandwich (DAS) ELISA assay and you do not have time or means to conjugate our protein to HorseRadish Peroxidase (HRP), we offer HRP-conjugated proteins for some of our catalog numbers.





### CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>ChimChagas1</b>	<b>RAG0093</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimChagas2</b>	<b>RAG0094</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimChagas3</b>	<b>RAG0096</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

### CYTOMEGALOVIRUS (CMV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>pp52</b>	<b>RAG0090</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	DNA polymerase processivity subunit
<b>pp150</b>	<b>RAG0091</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral matrix phosphoprotein
<b>ChimCMV1</b>	<b>RAG0109</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

### Epstein-Barr virus infection (EBV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>p18</b>	<b>RAG0049</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral capsid antigen

### Leishmaniasis (*Leishmania infantum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>K39</b>	<b>RAG0061</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Parasite kinesin-related antigen

### ORAL HERPES produced by HSV-1 (*Herpes simplex virus type 1*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
<b>gG1</b>	<b>RAG0017</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant mature glycoprotein G for HSV-1

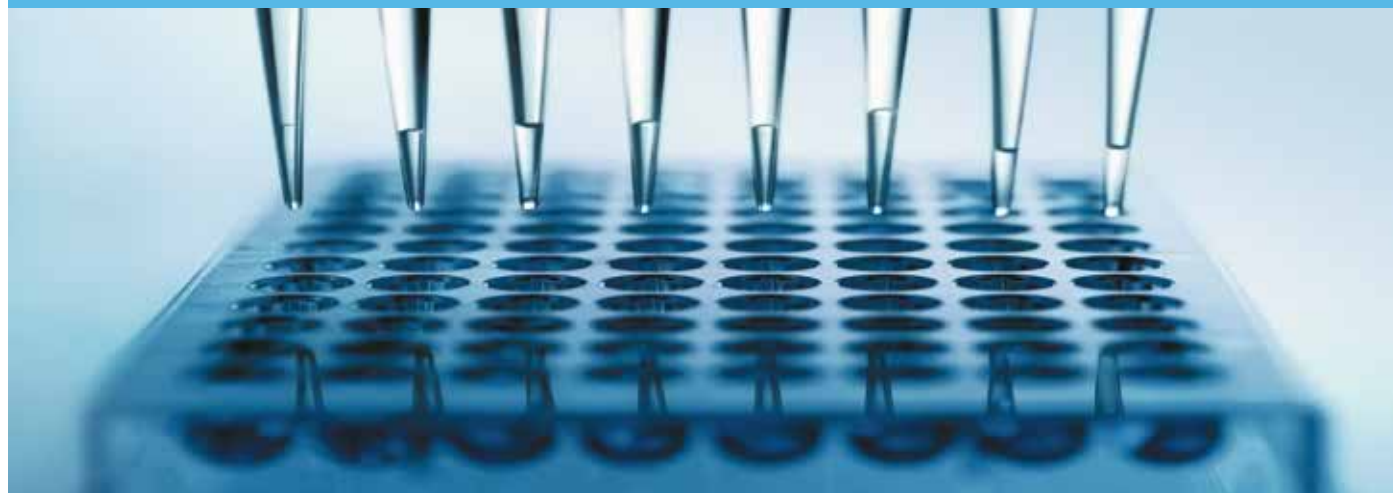
WB: Western Blot  
 DB: Dot Blot  
 IE: Indirect ELISA  
 DE: positive control in direct ELISA  
 CLIA: Chemiluminescent Immunoassay  
 LF: Lateral Flow  
 CE: Capture ELISA  
 DAS: Double antigen sandwich  
 NP: nanoparticles binding  
 PO: plate orientation

Pack size: 0.1 mg\*; 1 mg; bulk  
 Format: liquid; lyophilised  
 \*under availability, for liquid format



Top product (Satisfaction guarantee)

# CUSTOM-MADE PROTEINS



If you are a manufacturer of *in vitro* diagnostic tests, and you want to develop a new assay, but you cannot find the right appropriate IVD reagent on the market, we offer our design and production service of custom-made **recombinant proteins**. This service includes the initial design of the protein and its optimal production in ***Escherichia coli*** or in ***Pichia pastoris*** as heterologous expression systems.

We like to work closely with our customers to understand their problems and provide them with products totally adapted to their needs. Do not hesitate to contact us! We will develop a custom plan to help you develop the test you are looking for.

## SERVICE DETAILS

- ▶ The price of the service guarantees 3 to 5 mg of protein.
- ▶ Purity greater than 95%, analysed by SDS-PAGE Coomassie-stained gels.
- ▶ The purified protein can be sent with dry ice (liquid form) or at room temperature (lyophilized form), depending on the destination country.
- ▶ A detailed data-sheet including the characteristics of the recombinant protein and QC performed will be provided.
- ▶ The protein will be available for further bulk orders at reduced price by increasing the required amounts.
- ▶ The custom-made service project will be divided into various work milestones. Each milestone will consist of a series of phases whose development will be explained in the quotation.

### Study of the project

Study of the gene sequence, theoretical sequence analysis, selection of a heterologous expression system, selection of the optimal expression vector, design of the specific primers, codon optimization of the gene, etc.

### DNA construction

Amplification by PCR, clone of the target DNA in a selected expression vector, validation of the selected clone by sequencing and restriction analysis. Possibility of using different fusion tails and different secretion peptides

### Optimisation of expression levels

Screening and selection of induction conditions, expression and solubility, MCB and WCB stocks production, for reproducibility of future lots, etc.

### Protein delivery

Storage in sterile labeled plastic vials at  $-80^{\circ}\text{C}$  until release. Shipped with dry ice as a refrigerant. Possibility of offering lyophilized protein.

### Project information

Keeping you constantly informed on the project progress

### Quality control

Purity, integrity, stability, macroaggregation and microaggregation (SEC), western blot analysis, Maldi-TOF and immunoassays (western blot, ELISA)

### Formulation

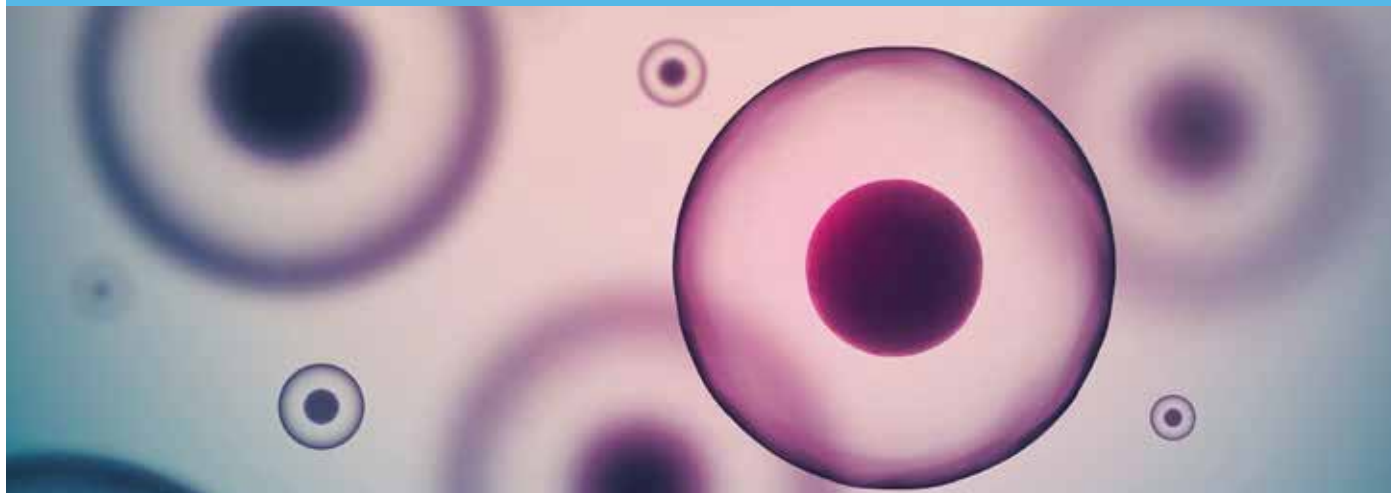
Optimization of the formulation of the protein storage buffer based on the use that will be subsequently given to the required protein

### Downstream procedure

Design of the complete process of purification of the target protein by using different chromatographic procedures, ultrafiltration, diafiltration, etc.



# IMMUNOASSAY BLOCKERS



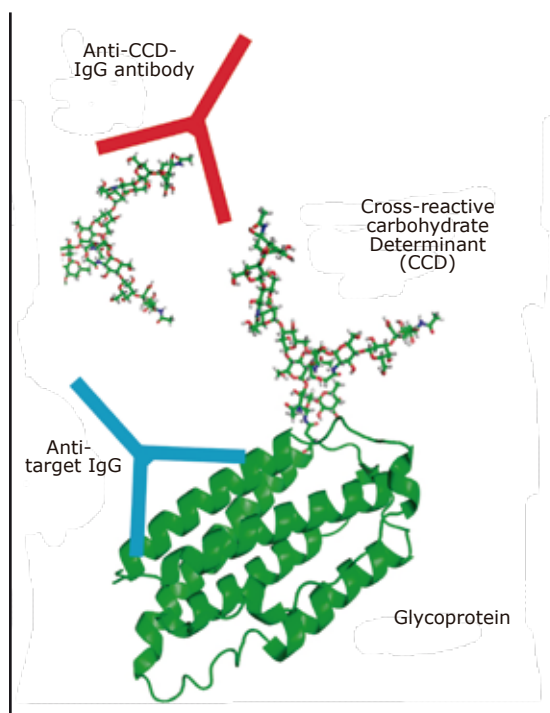
At Rekom Biotech we want to offer you more than just raw material for your *in vitro* diagnostics tests. That is why we have created a line of immunoassay blockers, so you can add them to your IVD assays and solve some of the problems you find in your workday routine.

Immunoassay blockers are used in diagnostic assays to reduce non-specific binding and other interference than could lead to false-positive results and, thus, an incorrect diagnosis. The blockers work by reducing the non-specific binding, increasing the signal-to-noise ratio. They can avoid (i) unspecific interactions with the solid-phase, and non-target proteins; (ii) and specific interactions with endogenous antibodies present within the specimen sample, which are not the specific target antibodies. An example of the latter are antibody interferences from HAMA, HA, RF and IgG (for IgM detection).



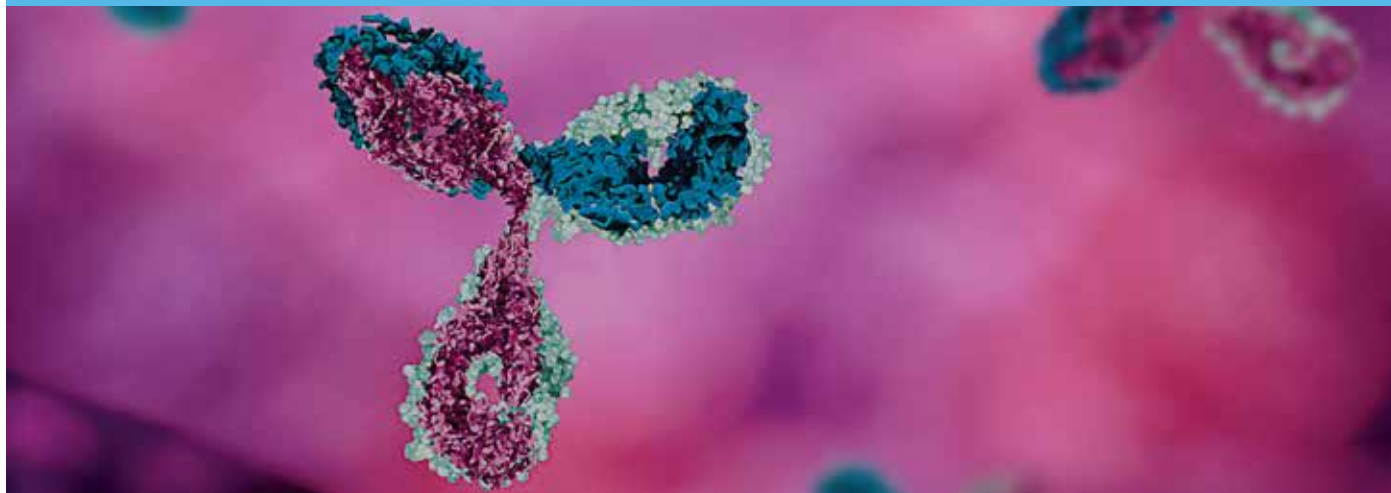
NAME	CAT NUMBER	DESCRIPTION
<b>Blocker for anti-cross-reactive carbohydrate determinants (CCD) antibodies</b>	<b>SOR0001</b>	Solution of several glycoconjugates

Pack size: 1 mg  
Format: lyophilised



Some human normal sera contains IgG antibodies against mannan from various pathogenic *Candida* species. This makes them able to interact with CCD structures of the proteins produced in *Pichia pastoris*. With the addition of this blocker, the anti-CCD antibodies will be kidnapped, so the specificity of the assay will increase.

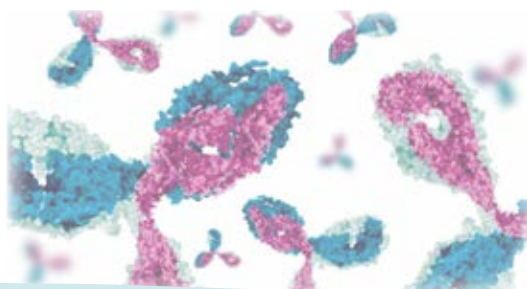
# ANTIBODIES



In Rekom Biotech we have opted for a new range of antibodies for the *in vitro* diagnostic industry, starting with **polyclonal antibodies**.

Polyclonal antibodies are able to recognize multiple epitopes of an antigen, and this usually leads to a strong signal. Furthermore, we reduce the broader background obtained by using an affinity chromatography. They are the right ones to choose when you need cost efficient and high affinity antibodies. They are mainly used in capture assays of a specific antigen in specimen samples (**antigen test**).

Our goal is to offer the *in vitro* diagnostics sector a growing catalog of polyclonal antibodies, starting with those corresponding to our most requested proteins. Take a look at our portfolio!



### CYTOMEGALOVIRUS (CMV)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER	DESCRIPTION
Anti-pp52	PAB0001	Rabbit	RAG0090 (p. 12)	WB: 1/3,000-1/3,500 ELISA: 1/25,600-1/51,200	Polyclonal antibody against pp52
Anti-pp150	PAB0002	Rabbit	RAG0091 (p. 12)	WB: 1/3,000 ELISA: 1/12,800 - 1/25,600	Polyclonal antibody against pp150
Anti-pp65	PAB0003	Rabbit	RAG0016 (p. 12)	WB: 1/4,500-1/5,000 ELISA: 1/51,200-1/102,400	Polyclonal antibody against pp65

### Anti-cross-reactive carbohydrate determinants (CCD) antibodies

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER	DESCRIPTION
Anti-CCD	PAB0004	Rabbit	SOR0001 (p. 42)	WB: 1/4,500-1/5,000 ELISA: 1/102,400-1/204,800	Polyclonal antibody against CCD

### TOXOPLASMOSIS (*Toxoplasma gondii*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER	DESCRIPTION
Anti-GRA7/ GRA8	PAB0005	Rabbit	RAG0083 (p. 10) RAG0084 (p. 10)	WB: 1:8,000-1:10,000 ELISA: 1/25,600 -1/204,800	Polyclonal antibody against GRA7 and GRA8
Anti-p30 (SAG1)	PAB0010 <i>new!</i>	Rabbit	RAG0030 (p.10)	WB: 1:2,000-1:4,000 ELISA: 1/800 -1/102,400	Polyclonal antibody against SAG1

### CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER	DESCRIPTION
Anti-Chagas	PAB0007 <i>new!</i>	Rabbit	RAG0003 (p. 10) RAG0005 (p. 10) RAG0103 (p. 10)	WB: 1:8,000-1:10,000 ELISA: 1/1,638,400 - 1/12,800	Polyclonal antibody against 1F8, FRA and B13

### HEPATITIS B (HBV)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER	DESCRIPTION
Anti-HBcAg	PAB0008 <i>new!</i>	Rabbit	RAG0056 (p. 14)	WB: 1:8,000-1:10,000 ELISA: 1/6,400 - 1/819,200	Polyclonal antibody against HBcAg

### TUBERCULOSIS (*Mycobacterium tuberculosis* (Koch's bacillus))

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER	DESCRIPTION
Anti-TB	PAB0009 <i>new!</i>	Rabbit	RAG0060 (p. 17)	WB: 1:8,000-1:10,000 ELISA: 1/6,400 - 1/819,200	Polyclonal antibody against CFP10, ESAT6.

Pack size: 0.1 mg; 0.5 mg  
Format: lyophilised

# CUSTOM-MADE ANTIBODIES



If you are a manufacturer of in vitro diagnostic tests, and you want to develop a new assay, but you cannot find the appropriate antibody on the market, we offer our production service of custom-made **polyclonal antibodies**.

We like to work closely with our customers to understand their problems and provide them with products totally adapted to their needs. Do not hesitate to contact us! We will develop a custom plan to help you develop the test you are looking for.

## SERVICE DETAILS

- ▶ The price of the service guarantees up to 10 mg of antibody, aliquoted in 1 mg fractions.
- ▶ The purified antibody can be sent with dry ice (liquid form) or at room temperature (lyophilised form), depending on the destination country.
- ▶ A detailed data-sheet including the characteristics of the antibody and QC performed will be provided.
- ▶ The custom-made service project will be divided into various work milestones. Each milestone will consist of a series of phases whose development will be explained in the quotation.



### Antibody generation

Immunization of a 10-week-old New Zealand white rabbit (female). Inoculations with a total of 5 mg of protein and bleeding at 3 months (approximately)

### Antibody delivery

Storage in sterile labeled plastic vials at  $-80^{\circ}\text{C}$  until release. Shipped with dry ice as a refrigerant. Possibility of offering lyophilized antibody

### Project information

Keeping you constantly informed on the project progress



### Antibody purification

Purification of the antibody obtained from immune blood by affinity chromatography (protein G)

### Validation and quality control

ELISA and Western blot titration using the protein inoculated to the rabbit

# PIPELINE



At Rekom Biotech we carry out R&D&i projects for the development of new high quality IVD reagents for the *in vitro* diagnosis of **human** and **animal** infectious diseases, and **allergies**. Below we detail the IVD reagents that are under development.

If you are interested in other projects, do not hesitate to contact us and we will prepare a detailed quotation for the IVD reagent you want, because we also offer custom-made proteins.

## Recombinant allergens

### Design

Protein design from scratch, always trying to improve its antigenic capacity.

### Verification

Search for the best DNA construction according to the design phase.

### Expression system

Selection of the best expression system for the protein.

### USP/DSP process tuning

Process adjustments to achieve an optimal seed, and the process to isolate our protein from the obtained seed.

### Validation

Validation and full quality control.

**Cas s 5** for *Castanea sativa* (**allergy**)

USP/DSP process tuning

**Jug r 1** for *Juglans regia* (**allergy**)

USP/DSP process tuning

## Recombinant antigens

### Design

Protein design from scratch, always trying to improve its antigenic capacity.

### Verification

Search for the best DNA construction according to the design phase.

### Expression system

Selection of the best expression system for the protein.

### USP/DSP process tuning

Process adjustments to achieve an optimal seed, and the process to isolate our protein from the obtained seed.

### Validation

Validation and full quality control.

**ChimASFV** for African swine fever (ASF) ([animal](#))

Validation

**ChimLip** for Leptospirosis caused by *Leptospira interrogans* ([human](#), [animal](#))

Validation

**ChimMp** for *Mycoplasma pneumoniae* Infection ([human](#))

Validation

**EDIIIIDENV-4 isotypes** for Dengue caused by *Flavivirus* ([human](#))

Validation

**VLP (core HBV)** for Hepatitis B ([human](#))

Validation

**p130** for Cytomegalovirus infection (CMV) ([human](#))

USP/DSP process tuning

**EDENV1** for Dengue caused by *Flavivirus* ([human](#))

USP/DSP process tuning

**EDENV2** for Dengue caused by *Flavivirus* ([human](#))

USP/DSP process tuning

**EDENV3** for Dengue caused by *Flavivirus* ([human](#))

USP/DSP process tuning

**CagA (Domain I)** for *Helicobacter pylori* Infection ([human](#))

Design

**CagA (Domain III)** for *Helicobacter pylori* Infection ([human](#))

Design

**ChimHCV1** for Hepatitis C ([human](#))

Design

**HBsAg** for Hepatitis B ([human](#))

Design

**p28/p30** for Ehrlichiosis caused by *Ehrlichia canis* ([animal](#))

Design

# QUALITY MANAGEMENT



Rekom Biotech is committed to ensure the highest quality level in the design and production of raw material for the IVD manufacturing industry.

Rekom Biotech products are designed, developed, manufactured and distributed according to our Quality Management System that is **certified by ISO 9001:2015 and ISO 13485:2016 standards**. Our IVD reagents are always manufactured according to Standard Operating Procedures (SOPs) and undergo rigorous quality controls in our laboratories.

We are authorised to work with genetic modified organisms (GMO), with the license number A/ES/19/I-22, issued by National Biosafety Commission.

We are registered as a **Innovative SME**.





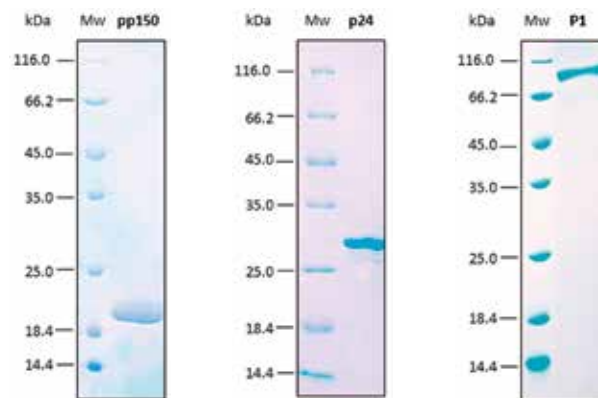
Each lot is subjected to various quality controls:

► **Concentration detection by spectrophotometry**

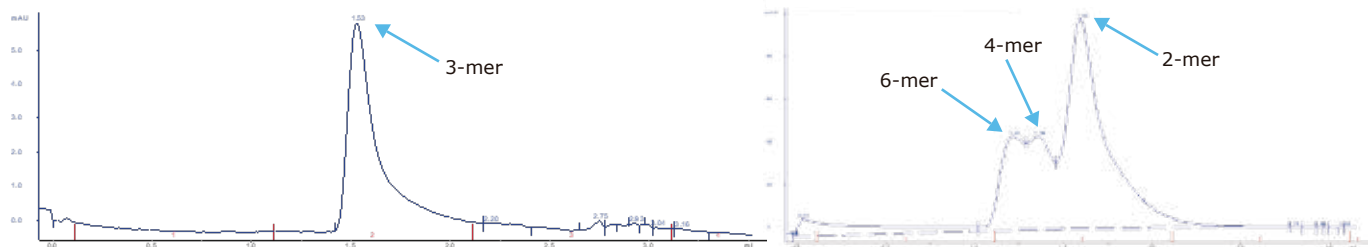
As the determination of accurate extinction coefficients is straightforward, ultraviolet absorption spectroscopy is preferred over chemical methods, such as the Lowry or Bradford methods. The measurement of the protein concentration is performed with the theoretical extinction coefficient of the recombinant protein obtained from Gill and von Hippel, 1989.

However, for proteins that do not contain any Trp residues, experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we measure the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues (Bradford Method) with a maximum absorption shift from 470 nm to 595 nm (Bradford, 1976).

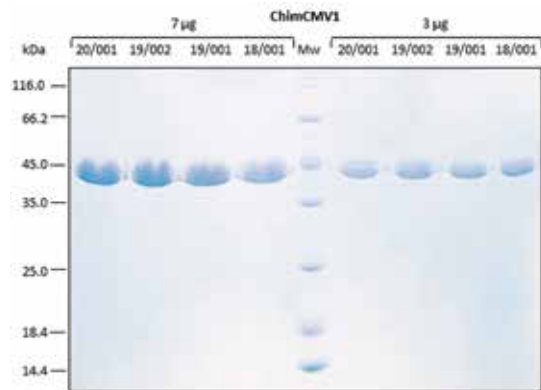
► **Purity determination by SDS-PAGE**



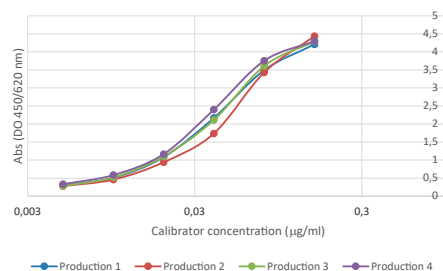
► **Aggregates, multimers or degraded species analysis by size-exclusion chromatography (SEC)**



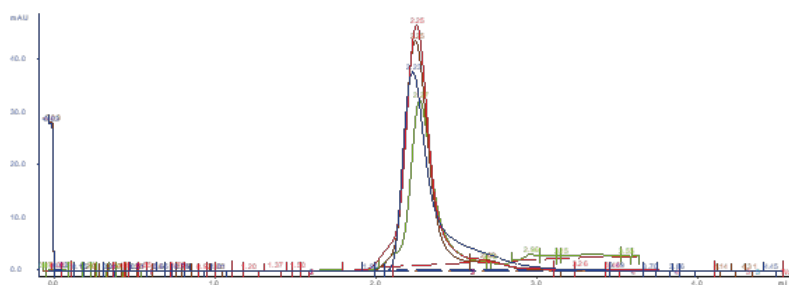
- **Lot-to-Lot Consistency.** Reproducibility analyses are performed by SDS-PAGE, SEC and ELISA assay. Excellent replicability of the production process.



SDS-PAGE analysis

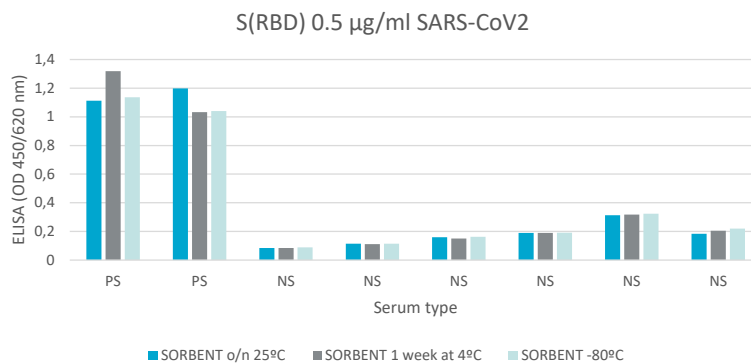


ELISA assay analysis



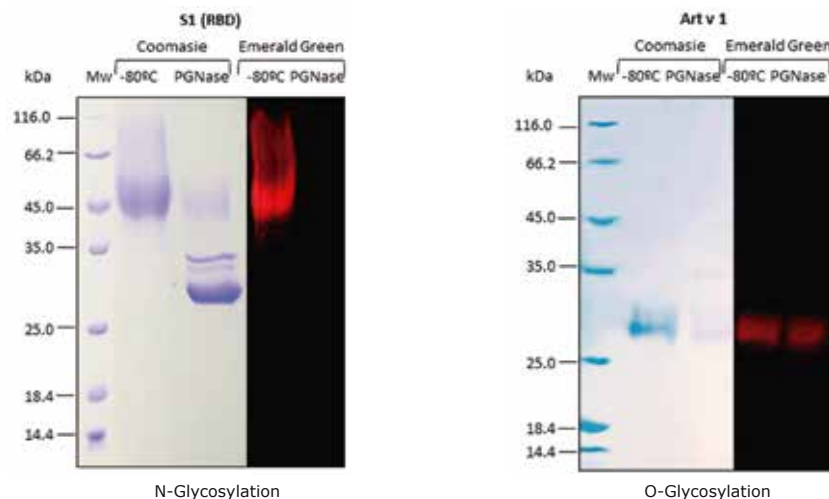
SEC Analysis

- **Storage Stability.** Relative stability with immunoassay analysis at different ambient conditions is performed.

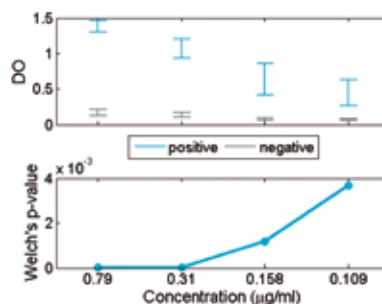


Stability of the sorbent effect at different storage times

- **Glycosylation Analysis.** For recombinant proteins produced in *Pichia pastoris*, the N-glycosylation and O-glycosylation are analysed.

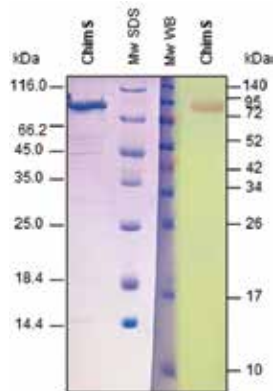


- **Immunological analyses by ELISA or Western Blot assays.** For further information, take a look at our technical report "Titration Experiments" in <https://www.rekombiotech.com/en/support/scientific-technical-information>.

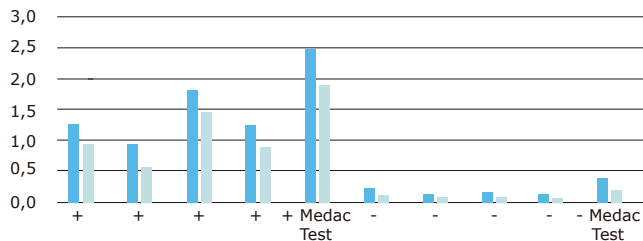


In this plot, the optical density at 450/620 nm for positive (blue) and negative (gray) IgG sera are compared for each concentration of the recombinant antigen. An appropriate statistical test of significance for the comparison of means between both groups, the Welch's test, is employed. Eligible concentrations for the use of the antigen should present statistically significant differences between positive and negative sera. This happens when the intervals at the top do not overlap and, equivalently, when the p-value at the bottom is below 0.05. In the present figure, all p-values are below 0.05 and thus the intervals do not overlap. Therefore, any of the showed concentrations can be used to distinguish between positive and negative sera.

- **Biotin conjugation.** Our *in vivo* monobiotinylated antigens are analysed with a western blot assay with conjugated streptavidin (A) and several ELISA assays (indirect ELISA assay in streptavidin-coated microtiter plates, capture ELISA assay with the biotinylated recombinant antigen as detector and double-antigen-sandwich ELISA assay (B)).



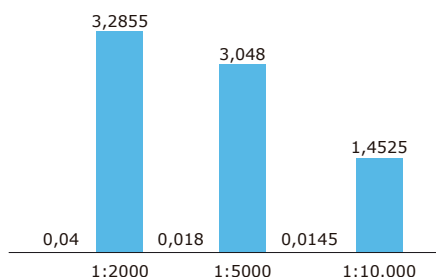
(A)



(B)

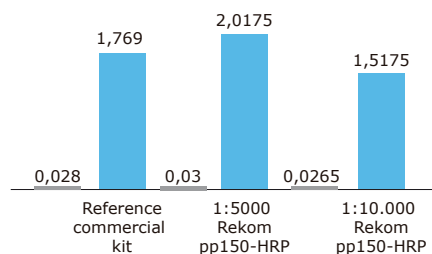
- **Peroxidase (HRP) conjugation.** As an internal quality control of an ELISA capture format, we also conjugate our antigens with peroxidase as internal quality control by using the biomarker as a developer. We perform a capture ELISA assay by using a commercial test and a double-antigen-sandwich ELISA assay.

■ Avg. OD 450/620 of - sera ■ Avg. OD 450/620 of + sera



A double antigen sandwich ELISA assay (DAS) performed with positive and negative CMV IgM specimen sera pre-validated with the ELISA capture IgM VIDAS.

■ Avg. OD 450/620 of - sera ■ Avg. OD 450/620 of + sera



A capture ELISA assay performed with two different dilutions of the Rekom pp150-HRP in a reference commercial test (CMV-IgM-eLA test PKS medac).





# TECHNICAL REPORTS



Take a look at our technical reports at <https://www.rekombiotech.com/en/scientific-technical-information>:

- ▶ Tritation Experiments
- ▶ Leishmania Recombinant Antigens KMP11 and K39
- ▶ Optimization of the recombinant EBV nuclear antigen quality by improving its integrity in *Escherichia Coli*
- ▶ Recombinant chimeric antigen VlsE for *Borrelia burgdorferi*
- ▶ Evaluation of a CMV chimeric recombinant antigen, ChimCMV1, by indirect and capture elisa assays. Comparison with other CMV antigens
- ▶ Evaluation of syphilis antigens Tpp17 and Tpp47 by using an in house third generation DAS-ELISA
- ▶ SAG1 (p30) from *Toxoplasma gondii* requires maintain its native conformation to detect IgM antibodies
- ▶ Multi-epitope chimeras as a syphilis IVD working pair (RAG0046/RAG0046BIOT) for IgG+IgM antibody detection by a double-antigen sandwich (DAS) immunoassay format
- ▶ Preparation of a detection complex RAG0109BIOT-Strep-HRP ready-to-use for CMV IgM immunocapture assay
- ▶ Nucleoprotein and spike glycoprotein, a combination of two quite different antigens for COVID-19 *in vitro* diagnostic.

## List of citations

You can also take a look at the bibliography performed with our products:

- ▶ Ulrike Ripp. (2013) Suitability of LipL32 as antigen in a screening-ELISA for the detection of *Leptospira*-antibodies in pigs. Thesis submitted to Institute of Animal Hygiene and Veterinary Public Health, Faculty of Veterinary Medicine, University of Leipzig
- ▶ Abass E, Bollig N, Reinhard K, Camara B, Mansour D, Visekruna A, Lohoff M, Steinhoff U. (2013) rKLO8, a Novel *Leishmania donovani* - derived recombinant immunodominant protein for sensitive detection of visceral leishmaniasis in Sudan. PLoS Negl Trop Dis 7(7): e0002322
- ▶ Zafra A, Castro AJ, Alché JD. (2018) Identification of novel superoxide dismutase isoenzymes in the olive (*Olea europaea* L.) pollen. BMC Plant Biol 18(1): 114
- ▶ Mollett G, Bremer Hinckel BC, Bhattacharyya T, Marlais T, Singh OP, Mertens P, Falconar AK, El-Safi S, Sundar S, Miles MA. (2019) Detection of Immunoglobulin G1 Against rK39 Improves Monitoring of Treatment Outcomes in Visceral Leishmaniasis. Clin Infect Dis 69(7): 1130-1135
- ▶ Bremer Hinckel BC, Marlais T, Airs S, Bhattacharyya T, Imamura H, Dujardin J-C, *et al.* (2019) Refining wet lab experiments with *in silico* searches: A rational quest for diagnostic peptides in visceral leishmaniasis. PLoS Negl Trop Dis 13(5): e0007353

# PRODUCT MANIPULATION



## SHIPPING

Our IVD reagents are in liquid or lyophilized (dry powder) format. Their shipment will be made with dry ice in case of being in liquid format, or at room temperature in case of being in lyophilized format.

## STORAGE

If the reagent is in liquid format, upon arrival, it should be aliquoted in order to avoid repeated freezing and thawing cycles and stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . Reagents should be maintained frozen at high concentrations. If the reagent is in lyophilized format, upon arrival, it should be stored at  $4^{\circ}$  to  $-20^{\circ}\text{C}$  in vertical position, avoiding all possible humidity and maintaining the vials dry. Once reconstituted, it should be stored as previously indicated.

## DEFROST

In order to defrost the product, maintain the aliquot at  $25^{\circ}\text{C}$  without shaking to avoid aggregation.





### MANIPULATION

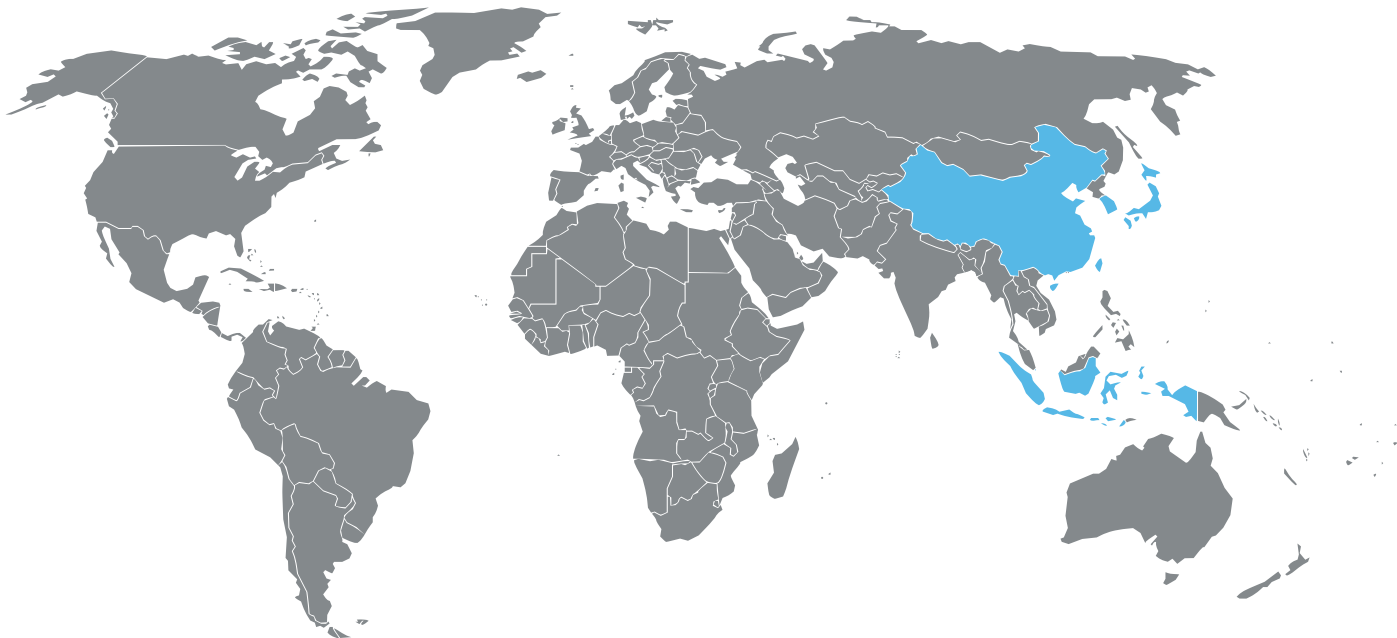
Before making test dilutions and after the protein has been defrosted, it is recommended to remove possible protein aggregates by centrifuging the stock solution, avoiding alterations in the immobilisation of the biomolecule to the solid surface.

During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ l or less, we recommend tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the containers cap. Although proteins are expressed in non-pathogenic *E. coli* and *P. pastoris* and bacterial integrity is destroyed during purification, the protein preparation should be handled as potentially infectious.

### STABILITY

The reagent will remain stable for a minimum of six years if the indicated storage conditions are met. After that, a retest will be required.

# DISTRIBUTORS



Rekom Biotech is a global born company and, as such, international markets are the basis of the company activity.

In most of these markets we **work directly with our customers** with the aim of offering them direct assistance and continuous support. In some others, we work with distributors in order to facilitate our customers the access to our products.

We are currently looking for established distributors in South America, Middle East, Russia and India. If you are interested in distributing Rekom Biotech's IVD reagents in one of these areas, we will be happy to hear your proposal.

## CHINA

### Ambigen (Nanjing) Biotech Co., Ltd.

Rm 302, Bldg #C, No.288 Qinhuai Ave,  
Lishui District, Nanjing, CHINA

Phone: 400-025-0860  
Email: info@ambigenbio.com

**AmkiGen** 安必进生物

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### Filgen Inc.

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Email: info-tw@tokyofuturestyle.com







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 Coming soon (Pipeline)  
 Top product (Satisfaction guarantee)

Certain uses of some of these products may violate existing or pending patent claims in a specific country. It is the user's responsibility to determine if the use of this product constitutes such a violation in the country where the recombinant antigen is going to be used. Rekom Biotech is not responsible for patent infringements or other violations that may occur by the use of this product in a specific country.

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Una manera de hacer Europa



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