

# Rekom EBV High-Quality Raw Material

ReKom Biotech offers high-quality raw material for Epstein-Barr Virus IVD intended to:

- ▶ DIAGNOSIS OF INFECTIOUS MONONUCLEOSIS
- ▶ DIAGNOSIS OF DISORDERS IN IMMUNOCOMPROMISED INDIVIDUALS ASSOCIATED WITH EBV
- ▶ TRANSPLANTATION

## PRODUCT PERFORMANCE:

- ▶ Versatility
- ▶ Validation
- ▶ Conjugation
- ▶ Reproducibility
- ▶ Broad spectrum
- ▶ Specificity and sensitivity
- ▶ Technical support
- ▶ Costs reduction and fast delivery



## REKOM RAW MATERIAL FOR EBV IVD

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	Early antigen
	<b>RAG0035BIOT</b>	<i>E. coli</i>	WB, DB, CE, NP, PO	p54 biotinylated
<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>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
<b>ChimEBV-EA</b>	<b>RAG0082</b>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric 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

🏆 Top product (Satisfaction guarantee)

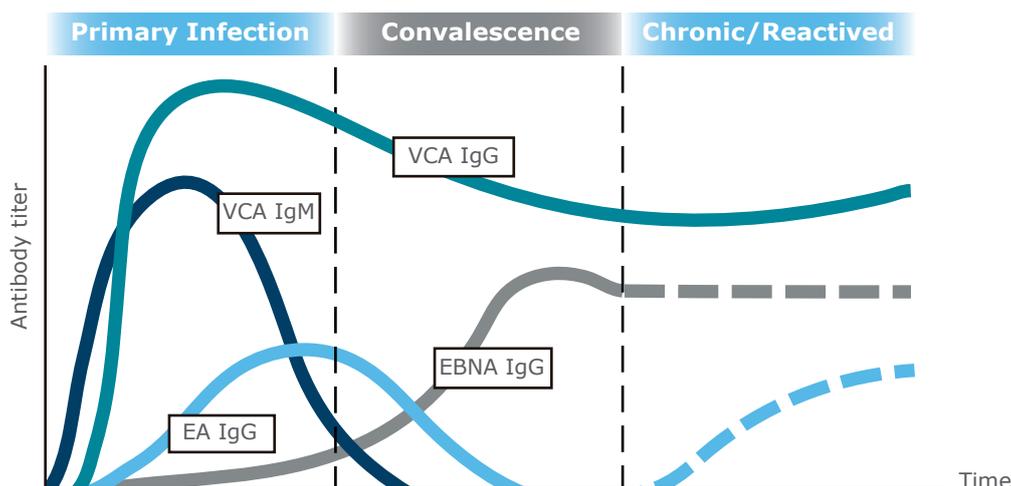
Epstein-Barr virus (EBV) is the major cause of infectious mononucleosis (IM) with an antibody prevalence rates reaching 95% or higher among elderly individuals.

Although the EBV genome encodes a number of different structural and nonstructural genes, those of most importance for serodiagnosis are the genes encoding the viral capsid antigens (VCAs), the early antigens (EAs) and the EBNAs: EBNA-1 and EBNA-2. More specifically, only three serological parameters are essential for the detection of EBV-specific antibodies in immunocompetent individuals on a qualitative basis, i.e., VCA IgG, VCA IgM and EBNA-1 IgG.

Clinical symptoms and diagnostic approaches differ according to the immune status of the patients:

- ▶ In immunocompetent individuals primary infection with EBV is most often frequently asymptomatic.
- ▶ IM may present as a mild infectious illness of young children, but in young adults primary EBV infection can cause a type of IM known as the Pfeiffer's Drüsenfieber (glandular fever) or kissing disease.
- ▶ EBV reactivation is not correlated to any disease so far in immunocompetent individuals, though it is a common phenomenon in such persons.
- ▶ In immunocompromised individuals, EBV is associated with disorders with high rates of morbidity and mortality. The spectrum ranges from benign B-cell hyperplasia resembling IM to more classic malignant lymphomas. In these patients an early detection of EBV replication and a high positive predictive value for the respective disease are required.

### EBV Infection Kinetics



#### Estimated Ab prevalence rates early after clinical presentation in a single acute-phase serum sample from immunocompetent individuals with primary EBV infections

Antigens	Ab	Prevalence (%)	Method
Heterophile Ab	IgM	50-85	Agglutination, rapid test
VCA	IgG	98-100	IFA, EIA, WB
VCA	IgM	70-100	IFA, EIA, WB
EBNA-1	IgG	0	IFA, EIA, WB
EA	IgG	60-89	IFA, EIA, WB

Table obtained from Hess, R.D. Routine Epstein-Barr Virus Diagnostics from the Laboratory Perspective: Still Challenging after 35 Years. 2004. Journal of Clinical Microbiology, 42:3381-3387.