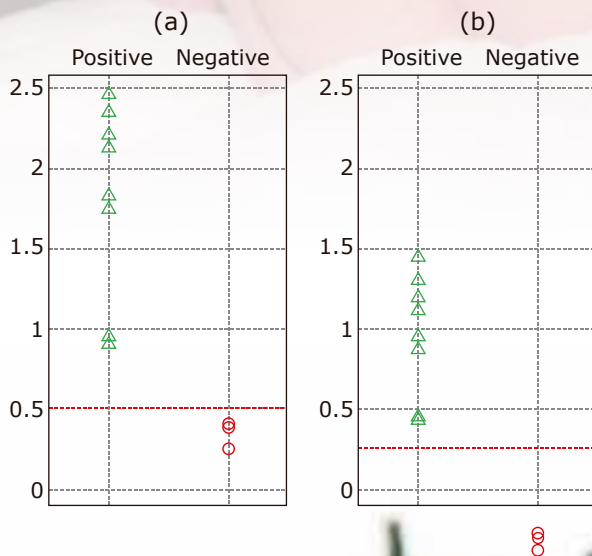


# Recombinant antigen K39 for *Leishmania infantum*


**Leishmaniasis** is a disease caused by protozoan parasites transmitted through the bites of infected sandflies like *Phlebotomus* and *Lutzomyia*. This parasite belongs to the genus *Leishmania* and the *Trypanosomatidae* family. This disease, due to its zoonotic nature can affect to humans and dogs, being transmitted by wild animals as asymptomatic reservoirs. Leishmaniasis causes different clinical manifestations ranging from self-healing cutaneous lesions (CL), mucosal lesions (MCL) to fatal visceral infections (VL).

The protein **K39** is a repetitive immunodominant epitope in a kinesin-related protein that is highly conserved among viscerotropic leishmania species. It has been described that a rK39 ELISA is sensitive and specific for serodiagnosis of human and canine VL (Scalone *et al.*, Vet Parasitol. 2002, 104(4):275-85).

Rekom Biotech has developed the kinesin protein K39 as a recombinant antigen **RAG0061**. It has been evaluated by performing an 'in house' ELISA assay, with with several positive and negative human sera, obtaining the following result:



Scatter charts of absorbance values in sera from *Leishmania* infected patients and healthy controls for IgG antibodies. The test results were plotted as optical densities at 450/620 nm. The cutoff line for positive diagnosis is drawn at a value that equals the sum of the mean and two times the standard deviation for healthy samples, obtaining a value of 0.4946 for a dilution 1:20,000 of the anti-human IgG HRP (a) and a cut-off of 0.2542 for a dilution 1:50,000 of the anti-human IgG HRP (b).

NAME	REFERENCE	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

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

 Top product (Satisfaction guarantee)