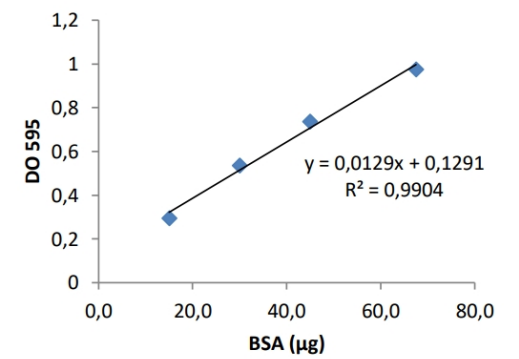
Recombinant Leishmania infantum K39 Antigen, His tagged

Cat. No. K39-029L **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant antigen K39 from Leishmania infantum has been prepared as a recombinant antigen fused to a his-tag.
Species	Leishmania infantum
Source	E.coli
Description	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.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 25 and 35 kDa, while relative molecular mass calculated from amino acid sequence is 25,936.0 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer	20 mM phosphate buffer pH 8, 1 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.538 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Scalone, A., de Luna, R., Oliva, G., Baldi, L., Satta, G., Vesco, G., Mignone, W., Turilli, C., Mondesire, R.R., Simpson, D., Donoghue, A.R., Frank, G.R., Gradoni, L. Evaluation of the Leishmania recombinant K39 antigen as a diagnostic marker for canine leishmaniasis and validation of a standardized enzyme-linked immunosorbent assay. 2002, Vet. Parasitol. 104:275–285. 2. Bradford, MM. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein dye binding. Anal Biochem. 1976, 131:499-503.
PROTEIN CONCENTRATION DETERMINED ESPECTROPHOTOMETRICALLY	 This protein does not contain any Trp residues. Experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we have measured the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues and its maximum absorption shifts from 470 nm to 595 nm. The standard

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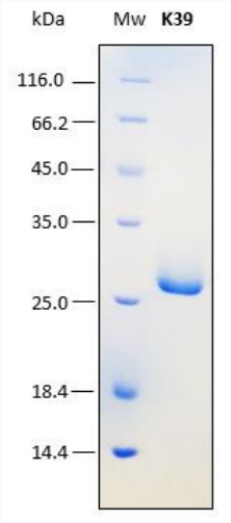
	curve was performed with the protein BSA. 40 µL of the protein were analyzed.
Purity	 SDS-PAGE analysis (15%) of 3 µL of recombinant K39. Purity is > 98% as determined by gel electrophoresis.

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