

Canine Pancreatic lipase-related protein 1 (PNLIPRP1) ELISA Kit

Catalog No: #EK8402

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Package Size: #EK8402-1 48T #EK8402-2 96T

Description

Product Name	Canine Pancreatic lipase-related protein 1 (PNLIPRP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Canine (Canis familiaris; Dog)
Other Names	PLRP1;
Accession No.	P06857
Uniprot	P06857
GeneID	404010;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.781-50 ng/mL

Sensitivity:0.34 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PNLIPRP1 in samples. An antibody specific for PNLIPRP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPNLIPRP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PNLIPRP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PNLIPRP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PNLIPRP1 has 68% amino acid sequence identity with PNLIP, 63% identity with PNLIPRP2, and 18 to 34% identity with gastric lipase), lipoprotein lipase, and hepatic lipase . Western blot analysis of recombinant PNLIPRP1 expressed in mammalian cells detected a secreted 47-kD protein. Recombinant PNLIPRP1 did not have lipolytic activity in a standard pancreatic lipase assay, suggesting that PNLIPRP1 may have different substrate and/or cofactor requirements than those present in the assay. Northern blot analysis of pancreas RNA detected a major 1.8-kb PNLIPRP1 transcript.

The expression level of PNLIPRP1 in pancreas was approximately 4-fold lower and 6-fold higher than the expression levels of PNLIP and PNLIPRP2, respectively.

Note: This product is for in vitro research use only