

Canine Alkaline Phosphatase ELISA Kit | ALP elisa kit

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CATALOG #
AAA92023

REACTIVITY
Canine

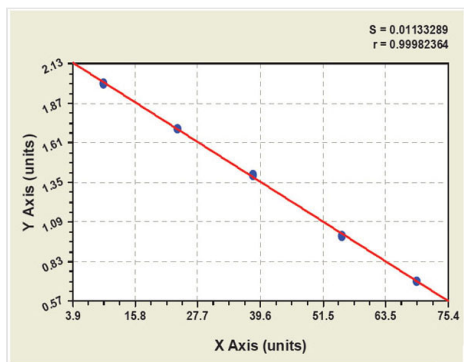
PRODUCT SYNONYMS

Alkaline Phosphatase; Canine Alkaline Phosphatase ELISA Kit; ALP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	5.0-100ng/mL
Sensitivity	1.0ng/mL
Intended Uses	This ALP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine ALP. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ALP elisa kit

Principle of the assay: ALP ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ALP antibody and an ALP-HRP conjugate. The assay sample and buffer are incubated together with ALP-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ALP concentration since ALP from samples and ALP-HRP conjugate compete for the anti-ALP antibody binding site. Since the number of sites is limited, as more sites are occupied by ALP from the sample, fewer sites are left to bind ALP-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ALP concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	178462
NCBI GeneID	249
Molecular Weight	51,045 Da
NCBI Official Full Name	alkaline phosphatase
NCBI Official Synonym Full Names	alkaline phosphatase, liver/bone/kidney
NCBI Official Symbol	ALPL
NCBI Official Synonym Symbols	HOPS; TNAP; APTNAP; TNSALP; AP-TNAP
NCBI Protein Information	alkaline phosphatase, tissue-nonspecific isozyme; glycerophosphatase; tissue-nonspecific ALP; alkaline phosphomonoesterase; liver/bone/kidney-type alkaline phosphatase; alkaline phosphatase liver/bone/kidney isozyme
UniProt Protein Name	Alkaline phosphatase, tissue-nonspecific isozyme
UniProt Gene Name	ALPL
UniProt Synonym Gene Names	AP-TNAP; TNSALP
UniProt Entry Name	PPBT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/alp-canine-elisa-kits/alkaline-phosphatase/92023>