

Canine Thymidine kinase, cytosolic (TK1) ELISA Kit | TK1 elisa kit

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CATALOG #
AAA27189

REACTIVITY
Canine

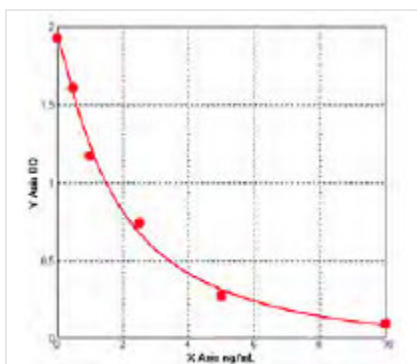
PRODUCT SYNONYMS

Thymidine kinase; cytosolic (TK1); Canine Thymidine kinase; cytosolic (TK1) ELISA Kit; TK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of TK1. No significant cross-reactivity or interference between TK1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between TK1 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TK1 elisa kit	Intended Uses: This TK1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine TK1. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: TK1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti- TK1 antibody and an TK1-HRP conjugate. The assay sample and buffer are incubated together with TK1-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 TK1 concentration since TK1 from samples and TK1-HRP conjugate compete for the anti- TK1 antibody binding site. Since the number of sites is limited, as more sites are occupied by TK1 from the sample, fewer sites are left to bind TK1HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The TK1 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	164698438
NCBI GeneID	7083
NCBI Accession #	NP_003249.3
NCBI GenBank Nucleotide #	NM_003258.4
Molecular Weight	25,469 Da
NCBI Official Full Name	thymidine kinase, cytosolic
NCBI Official Synonym Full Names	thymidine kinase 1, soluble
NCBI Official Symbol	TK1
NCBI Official Synonym Symbols	TK2
NCBI Protein Information	thymidine kinase, cytosolic; thymidine kinase-1; thymidine kinase 1 soluble isoform
UniProt Protein Name	Thymidine kinase, cytosolic
UniProt Gene Name	TK1
UniProt Entry Name	KITH_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/canine-elisa-kits/thymidine-kinase-cytosolic-tk1/27189>