

Canine Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial (PDHA1) ELISA Kit | PDHA1 elisa kit

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CATALOG #
AAA244329

REACTIVITY
Canine

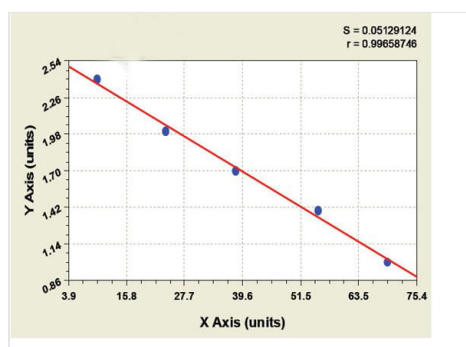
PRODUCT SYNONYMS

Pyruvate dehydrogenase E1 component subunit alpha; somatic form; mitochondrial (PDHA1); Canine Pyruvate dehydrogenase E1 component subunit alpha; mitochondrial (PDHA1) ELISA Kit; PDHA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	0.1 ng/mL.
Intended Uses	This PDHA1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of human PDHA1. 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 PDHA1 elisa kit

Principle of the assay: PDHA1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a PDHA1 and an PDHA1-HRP conjugate. The assay sample and buffer are incubated together with PDHA1-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 450 nm in a microplate reader. The intensity of the color is inversely proportional to the PDHA1 concentration since PDHA1 from samples and PDHA1-HRP compete for the PDHA1 antibody binding site. Since the number of sites is limited, as more sites are occupied by PDHA1 from the sample, fewer sites are left to bind PDHA1-HRP. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PDHA1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505685
NCBI GeneID	5160
NCBI Accession #	NP_000275.1
NCBI GenBank Nucleotide #	NM_000284.3
Molecular Weight	47,580 Da
NCBI Official Full Name	pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial isoform 1
NCBI Official Synonym Full Names	pyruvate dehydrogenase (lipoamide) alpha 1
NCBI Official Symbol	PDHA1
NCBI Official Synonym Symbols	PDHA; PHE1A; PDHCE1A
NCBI Protein Information	pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial; PDHE1-A type I; pyruvate dehydrogenase complex, E1-alpha polypeptide 1
UniProt Protein Name	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial
UniProt Gene Name	PDHA1
UniProt Synonym Gene Names	PHE1A
UniProt Entry Name	ODPA_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/pyruvate-dehydrogenase-e1-component-subunit-alpha-somatic-form-mitochondrial-pdha1/244329>