

Rat Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial ELISA Kit | Pdha1 elisa kit

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CATALOG #
AAA98543

REACTIVITY
Rat

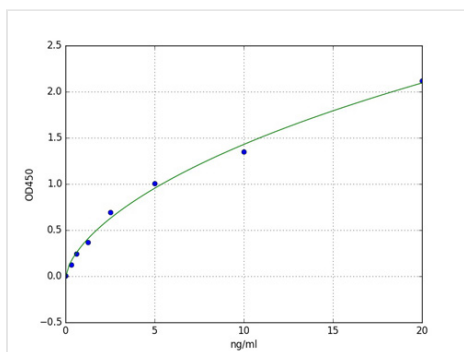
PRODUCT SYNONYMS

Pyruvate dehydrogenase E1 component subunit alpha; somatic form; mitochondrial; Rat Pyruvate dehydrogenase E1 component subunit alpha; mitochondrial ELISA Kit; Pdha1/PDHE1-A type I; Pdha1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Sequence Length	359
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

Typical Data & Standard Curve
Results of a typical standard run of a Rat Pdha1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.313	0.625	1.25	2.5	5	10	20
Y	OD450	0.040	0.114	0.199	0.366	0.588	1.041	1.206	2.009

ADDITIONAL INFORMATION

Related Product Information for Pdha1 elisa kit

Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. anti-Rat Pdha1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Rat Pdha1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Rat Pdha1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Rat Pdha1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	291084757
NCBI GeneID	5160
NCBI Accession #	NP_001166927.1
NCBI GenBank Nucleotide #	NM_001173456.1
Molecular Weight	47,580 Da
NCBI Official Full Name	pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial isoform 4
NCBI Official Synonym Full Names	pyruvate dehydrogenase (lipoamide) alpha 1
NCBI Official Symbol	PDHA1
NCBI Official Synonym Symbols	PDHA; PDHAD; PHE1A; PDHCE1A
NCBI Protein Information	pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial
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/pdha1-rat-elisa-kits/pyruvate-dehydrogenase-e1-component-subunit-alpha-somatic-form-mitochondrial/98543>