

Human Pyruvate Dehydrogenase E1 Component Subunit alpha, Somatic Form, Mitochondrial (PDHA1) ELISA Kit | PDHA1 elisa kit

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CATALOG #
AAA331435

REACTIVITY
Human

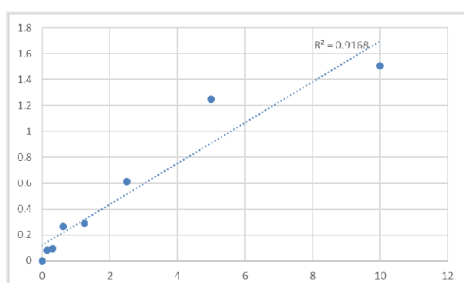
PRODUCT SYNONYMS

Pyruvate Dehydrogenase E1 Component Subunit alpha; Somatic Form; Mitochondrial (PDHA1); Human Pyruvate Dehydrogenase E1 Component Subunit alpha; Mitochondrial (PDHA1) ELISA Kit; PDHA1; RP11-723P2.1; PDHA; PDHCE1A; PHE1A; PDHE1-A type I; pyruvate dehydrogenase E1 alpha 1; pyruvate dehydrogenase E1 alpha subunit; pyruvate dehydrogenase E1 component subunit alpha; somatic form; mitochon; PDHA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial (PDHA1) ELISA Kit has high sensitivity and excellent specificity for detection of Human PDHA1. No significant cross-reactivity or interference between Human PDHA1 and analogues was observed.
Sequence Length	390
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial (PDHA1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PDHA1 elisa kit	Description: This Human Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial (PDHA1) ELISA Kit employs a two-site sandwich ELISA to quantitate PDHA1 in samples. An antibody specific for PDHA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PDHA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDHA1 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 PDHA1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The pyruvate dehydrogenase complex is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The PDH complex is composed of multiple copies of 3 enzymes: E1 (PDHA1); dihydrolipoyl transacetylase (DLAT) (E2); and dihydrolipoyl dehydrogenase (DLD) (E3). The E1 enzyme is a heterotetramer of 2 alpha and 2 beta subunits. The E1-alpha subunit contains the E1 active site and plays a key role in the function of the PDH complex. Pyruvate dehydrogenase (E1) performs the first two reactions within the pyruvate dehydrogenase complex (PDC): a decarboxylation of substrate 1 (pyruvate) and a reductive acetylation of substrate 2 (lipoic acid).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505685
NCBI GeneID	5160
NCBI Accession #	NP_000275.1
NCBI GenBank Nucleotide #	NP_000275.1
UniProt Accession #	P08559
NCBI Official Full Name	pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial isoform 1
NCBI Official Synonym Full Names	pyruvate dehydrogenase E1 alpha 1 subunit
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.