

Human Pyruvate Dehydrogenase E1 Component Subunit beta, Mitochondrial (PDHB) ELISA Kit | PDHB elisa kit

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CATALOG #
AAA331434

REACTIVITY
Human

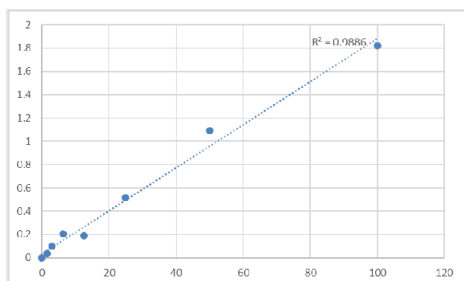
PRODUCT SYNONYMS

Pyruvate Dehydrogenase E1 Component Subunit beta; Mitochondrial (PDHB); Human Pyruvate Dehydrogenase E1 Component Subunit beta; Mitochondrial (PDHB) ELISA Kit; PDHB; DKFZp564K0164; PHE1B; Pyruvate dehydrogenase; E1 beta polypeptide; PDHB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Pyruvate dehydrogenase E1 component subunit beta, mitochondrial (PDHB) ELISA Kit has high sensitivity and excellent specificity for detection of Human PDHB. No significant cross-reactivity or interference between Human PDHB and analogues was observed.
Sequence Length	359
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 beta, mitochondrial (PDHB) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PDHB elisa kit	Description: This Human Pyruvate dehydrogenase E1 component subunit beta, mitochondrial (PDHB) ELISA Kit employs a two-site sandwich ELISA to quantitate PDHB in samples. An antibody specific for PDHB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PDHB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDHB 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 PDHB bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Koike et al. (1988) cloned and sequenced cDNAs encoding the alpha and the beta subunits. Theoretically, there may be 2 forms of pyruvate dehydrogenase deficiency, one with mutation in the PDHA gene and one with mutation in the PDHB gene. Ho et al. (1988) isolated a 1.5-kb cDNA clone for the beta subunit of E1 from a human liver gamma-gt11 cDNA library using anti-E1 serum. Using a cDNA probe, Olson et al. (1990) demonstrated that the PHE1B gene is located on 3p13-q23. Koike et al. (1990) described the molecular cloning of the entire human PHE1B gene, its characterization by restriction enzyme analysis, and its complete nucleotide sequence. The gene is composed of 10 exons and 9 introns. All intron-exon splice junctions follow the GT/AG rule. The Alu family was found in introns 2 and 8.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	134044259
NCBI GeneID	5162
UniProt Accession #	P11177
NCBI Official Full Name	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial
NCBI Official Synonym Full Names	pyruvate dehydrogenase E1 beta subunit
NCBI Official Symbol	PDHB
NCBI Official Synonym Symbols	PDHBD; PHE1B; PDHE1B; PDHE1-B
NCBI Protein Information	pyruvate dehydrogenase E1 component subunit beta, mitochondrial
UniProt Protein Name	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial
UniProt Gene Name	PDHB
UniProt Synonym Gene Names	PHE1B; PDHE1-B
UniProt Entry Name	ODPB_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.