

Human Pyruvate Dehydrogenase Beta (PDHb) ELISA Kit | PDHb elisa kit

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CATALOG #
AAA68062

REACTIVITY
Human

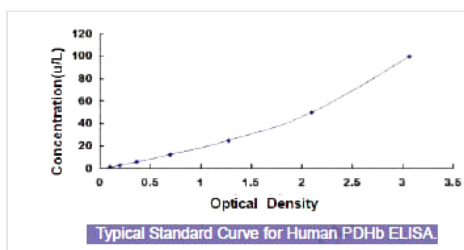
PRODUCT SYNONYMS

Pyruvate Dehydrogenase Beta (PDHb); Human Pyruvate Dehydrogenase Beta (PDHb) ELISA Kit; PDHb elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PDHb. No significant cross-reactivity or interference between PDHb and analogues was observed.
Sequence Length	341
Samples	Tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Assay Type	Sandwich
Detection Range	1.56-100U/L
Sensitivity	1.2U/L
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PDHb were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PDHb were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PDHb elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PDHb in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PDHb. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to PDHb. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PDHb, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of PDHb in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	156564403
NCBI GeneID	5162
NCBI Accession #	NP_000916.2
NCBI GenBank Nucleotide #	NM_000925.3
UniProt Accession #	P11177; Q6FH45; Q9BQ27; Q9UFK3; B2R7L0; B4DDD7
Molecular Weight	37,514 Da
NCBI Official Full Name	pyruvate dehydrogenase E1 component subunit beta, mitochondrial isoform 1
NCBI Official Synonym Full Names	pyruvate dehydrogenase (lipoamide) beta
NCBI Official Symbol	PDHB
NCBI Official Synonym Symbols	PDHBD; PHE1B; 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

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.