

Human Pyruvate Dehydrogenase Complex Component X (PDHX) ELISA Kit | PDHX elisa kit

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CATALOG #
AAA188278

REACTIVITY
Human

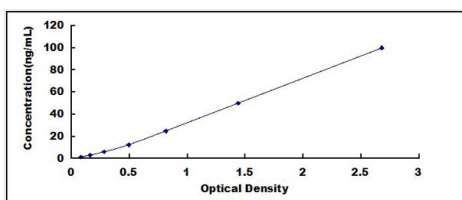
PRODUCT SYNONYMS

Pyruvate Dehydrogenase Complex Component X (PDHX); Human Pyruvate Dehydrogenase Complex Component X (PDHX) ELISA Kit; E3BP; proX; PDX1; OPDX; DLDBP; E3-binding protein; Dihydrolipoamide dehydrogenase-binding protein of pyruvate dehydrogenase complex; PDHX elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Pyruvate Dehydrogenase Complex Component X (PDHX). No significant cross-reactivity or interference between Pyruvate Dehydrogenase Complex Component X (PDHX) and analogues was observed.
Sequence Length	501
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	1.56-100ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.54ng/mL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Pyruvate Dehydrogenase Complex Component X (PDHX) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Pyruvate Dehydrogenase Complex Component X (PDHX) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PDHX elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Pyruvate Dehydrogenase Complex Component X (PDHX). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Pyruvate Dehydrogenase Complex Component X (PDHX). 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 Pyruvate Dehydrogenase Complex Component X (PDHX), 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 Pyruvate Dehydrogenase Complex Component X (PDHX) 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 #	12643417
NCBI GeneID	8050
UniProt Accession #	O00330
NCBI Official Full Name	Pyruvate dehydrogenase protein X component, mitochondrial
NCBI Official Synonym Full Names	pyruvate dehydrogenase complex component X
NCBI Official Symbol	PDHX
NCBI Official Synonym Symbols	E3BP; OPDX; PDX1; proX; DLDBP; PDHxD
NCBI Protein Information	pyruvate dehydrogenase protein X component, mitochondrial
UniProt Protein Name	Pyruvate dehydrogenase protein X component, mitochondrial
UniProt Gene Name	PDHX
UniProt Synonym Gene Names	PDX1; E3BP
UniProt Entry Name	ODPX_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.