

Human Pyruvate Dehydrogenase Phosphatase (PDP) ELISA Kit | PDP elisa kit

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CATALOG #
AAA139521

REACTIVITY
Human

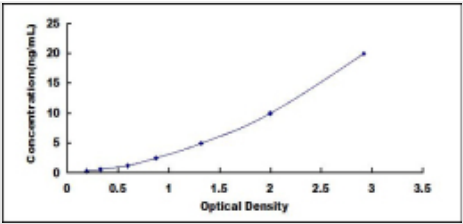
PRODUCT SYNONYMS

Pyruvate Dehydrogenase Phosphatase (PDP); Human Pyruvate Dehydrogenase Phosphatase (PDP) ELISA Kit; PDP1; PDH; PPM2C; Protein Phosphatase 2C Magnesium-Dependent Catalytic Subunit; Pyruvate Dehydrogenase Phosphatase Catalytic Subunit 1; PDP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Pyruvate Dehydrogenase Phosphatase (PDP). No significant cross-reactivity or interference between Pyruvate Dehydrogenase Phosphatase (PDP) and analogues was observed.
Sequence Length	475
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.125ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Pyruvate Dehydrogenase Phosphatase (PDP) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Pyruvate Dehydrogenase Phosphatase (PDP) 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 PDP 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 Phosphatase (PDP). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Pyruvate Dehydrogenase Phosphatase (PDP). 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 Phosphatase (PDP), 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 Phosphatase (PDP) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for PDP elisa kit	Enzyme & Kinase; Metabolic pathway; Hepatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	386763995
NCBI GeneID	31683
NCBI Accession #	NP_001245567.1
NCBI GenBank Nucleotide #	NM_001258638.2
UniProt Accession #	Q9W3Q1
Molecular Weight	53,551 Da
NCBI Official Full Name	pyruvate dehydrogenase phosphatase, isoform B
NCBI Official Synonym Full Names	Pyruvate dehydrogenase phosphatase
NCBI Official Symbol	Pdp
NCBI Official Synonym Symbols	153332_at; CG12151; DmelCG12151; pdp; PDP
NCBI Protein Information	CG12151 gene product from transcript CG12151-RB
UniProt Protein Name	GM14286p
UniProt Gene Name	Pdp
UniProt Entry Name	Q9W3Q1_DROME

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.