

# Mouse Pyruvate dehydrogenase protein X component, mitochondrial (PDHX) ELISA Kit



Catalog No: #EK11472

Orders: order@signalwayantibody.com

Package Size: #EK11472-1 48T #EK11472-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Pyruvate dehydrogenase protein X component, mitochondrial (PDHX) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DLDBP; E3BP; OPDX; PDX1; proX; dihydrolipoamide dehydrogenase-binding protein of pyruvate dehydrogenase complex pyruvate dehydrogenase complex; E3-binding protein subunit pyruvate dehydrogenase comp
Accession No.	Q8BKZ9
Uniprot	Q8BKZ9
GeneID	27402;
Storage	The stability of ELISA 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.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:78.12-5000 pg/mL

Sensitivity:30.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PDHX in samples. An antibody specific for PDHX has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPDHX present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDHX 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 PDHX bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The PDHX gene encodes component X of the pyruvate dehydrogenase (PDH) complex. For a detailed description of the pyruvate dehydrogenase complex. The mammalian PDH complex differs from that in E. coli and from the other mammalian alpha-keto acid dehydrogenases by the presence of a 53-kD protein called protein X. Component X binds to the E3 component of the PDH complex. The open reading frame encodes an 501-amino acid protein sequence that is 20% identical with that encoded by the yeast PDX1 gene and 40% identical with that encoded by the lipoyltransferase component E2 of the PDH (E2), and includes a lipoyl-bearing domain. Sequence comparisons

showed that the PDHX protein contains an E3-binding domain.

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Note: This product is for in vitro research use only