

Mouse Pyruvate Dehydrogenase Kinase Isozyme 3 (PDK3) ELISA Kit | PDK3 elisa kit

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CATALOG #
AAA189807

REACTIVITY
Mouse

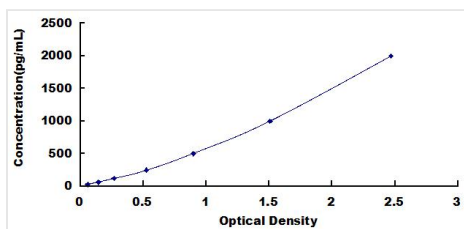
PRODUCT SYNONYMS

Pyruvate Dehydrogenase Kinase Isozyme 3 (PDK3); Mouse Pyruvate Dehydrogenase Kinase Isozyme 3 (PDK3) ELISA Kit; PDHK3; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3; mitochondrial; PDK3/Pyruvate Dehydrogenase Kinase Isozyme 3; PDK3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of PDK3. No significant cross-reactivity or interference between PDK3 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	< 12.2pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PDK3 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 PDK3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf Life: 8 months 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 PDK3 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PDK3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PDK3. 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 PDK3, 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 PDK3 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PDK3 in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for PDK3 elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	21704122
NCBI GeneID	236900
NCBI Accession #	NP_663605.1
NCBI GenBank Nucleotide #	NM_145630.2
UniProt Accession #	Q922H2; Q8BTX1
Molecular Weight	47,923 Da
NCBI Official Full Name	pyruvate dehydrogenase kinase, isozyme 3
NCBI Official Synonym Full Names	pyruvate dehydrogenase kinase, isoenzyme 3
NCBI Official Symbol	Pdk3
NCBI Official Synonym Symbols	AI035637; 2610001M10Rik
NCBI Protein Information	pyruvate dehydrogenase kinase, isozyme 3; pyruvate dehydrogenase kinase 3; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3, mitochondrial; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3, mitochondrial
UniProt Protein Name	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3, mitochondrial
UniProt Gene Name	Pdk3
UniProt Entry Name	PDK3_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/pyruvate-dehydrogenase-kinase-isozyme-3-pdk3/189807>