

Mouse Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3) ELISA Kit | EIF2aK3 elisa kit

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CATALOG #
AAA186732

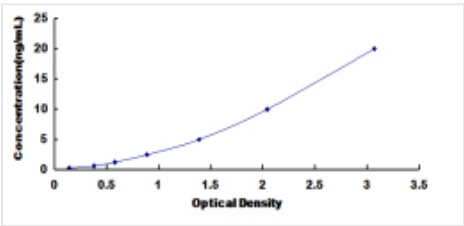
REACTIVITY
Mouse

PRODUCT SYNONYMS

Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3); Mouse Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3) ELISA Kit; WRS; PEK; PERK; HsPEK; PRKR-like endoplasmic reticulum kinase; Pancreatic eIF2-alpha kinase; EIF2aK3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3). No significant cross-reactivity or interference between Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3) and analogues was observed.
Sequence Length	1,116
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates and Other Biological Fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.108ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3) 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.



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for EIF2aK3 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 Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3). 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 Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3), 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 Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3) 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 #	134304838
NCBI GeneID	9451
NCBI Accession #	NP_004827.4
NCBI GenBank Nucleotide #	NM_004836.6
UniProt Accession #	Q9NZJ5; O95846; Q53QY0; Q53SB1; A0AVH1; A0AVH2; B2RCU9
Molecular Weight	125,216 Da
NCBI Official Full Name	eukaryotic translation initiation factor 2-alpha kinase 3 isoform 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2 alpha kinase 3
NCBI Official Symbol	EIF2AK3
NCBI Official Synonym Symbols	PEK; WRS; PERK
NCBI Protein Information	eukaryotic translation initiation factor 2-alpha kinase 3
UniProt Protein Name	Eukaryotic translation initiation factor 2-alpha kinase 3
UniProt Gene Name	EIF2AK3
UniProt Synonym Gene Names	PEK; PERK; HsPEK

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.