

Rat Eif2ak3 (Eukaryotic translation initiation factor 2-alpha kinase 3) ELISA Kit | Eif2ak3 elisa kit

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CATALOG # AAA248541	REACTIVITY Rat
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PRODUCT SYNONYMS

Eif2ak3 (Eukaryotic translation initiation factor 2-alpha kinase 3); Rat Eif2ak3 (Eukaryotic translation initiation factor 2-alpha kinase 3) ELISA Kit; PERK; PRKR-like endoplasmic reticulum kinase; Pancreatic eIF2-alpha kinase; Eif2ak3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Eif2ak3 . No significant cross-reactivity or interference between Eif2ak3 and analogues was observed.
Sequence Length	1116
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	46.875-3000pg/ml
Sensitivity	28.125pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Eif2ak3 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Eif2ak3 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve									
Results of a typical standard operation of a Eif2ak3 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A:Not applicable)									
X	pg/ml	0	46.875	93.75	187.5	375	750	1500	3000
Y	OD450	0.078	0.139	0.182	0.297	0.525	0.765	1.345	2.416

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Eif2ak3 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Eif2ak3 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- Eif2ak3 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Eif2ak3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Eif2ak3 can be calculated.

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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/eif2ak3-eukaryotic-translation-initiation-factor-2-alpha-kinase-3/248541>