

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

Human Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3)(Sandwich ELISA) ELISA Kit

CATALOG # AAA189582	REACTIVITY Human	APPLICATIONS ELISA
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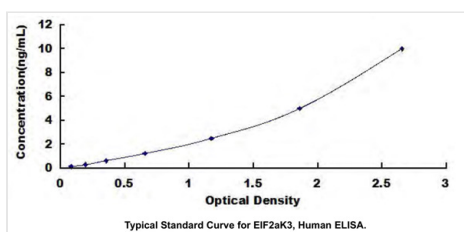
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
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.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.065ng/mL
Applicable Applications for EIF2aK3 elisa kit	ELISA
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<10%
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<12%
Preparation and Storage	Store at 4 degree C for 1 month/ -20 degree C for long-term (within shelf life). 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 EIF2aK3 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to EIF2aK3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 $\pm$ 10nm. The concentration of EIF2aK3 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 EIF2aK3 in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for EIF2aK3 elisa kit	Tumor immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	134304838
NCBI GeneID	9451
NCBI Accession #	NP_004827.4
NCBI GenBank Nucleotide #	NM_004836.5
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
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; hsPEK; pancreatic EIF2-alpha kinase; PRKR-like endoplasmic reticulum kinase; 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
UniProt Entry Name	E2AK3_HUMAN

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/human-elisa-kits/eukaryotic-translation-initiation-factor-2-alpha-kinase-3-eif2ak3/189582>