Mouse 52 kDa repressor of the inhibitor of the protein kinase (PRKRIR) ELISA Kit

Catalog No: #EK11413

Package Size: #EK11413-1 48T #EK11413-2 96T

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Description

Product Name	Mouse 52 kDa repressor of the inhibitor of the protein kinase (PRKRIR) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DAP4; MGC102750; P52rIPK; THAP0; death-associated protein 4|inhibitor of protein kinase PKR
Accession No.	Q9CUX1
Uniprot	Q9CUX1
GeneID	72981;
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:Request Information

Sensitivity:Request Information

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 PRKRIR in samples. An antibody specific for PRKRIR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRKRIR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKRIR 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 PRKRIR bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PRKRIR contains a region (amino acids 86 to 200) of limited homology (24% identity) to the charged domain of HSP90.The THAP domain of the deduced 761-amino acid THAP0 protein includes a C2CH signature, an AVPTIF box, and several other conserved amino acids.

When coexpressed with PKR in yeast, P58(IPK) repressed PKR-mediated EIF2-alpha phosphorylation, inhibiting the normally toxic and growth-suppressive effects associated with PKR function. Conversely, introduction of P52(rIPK) into these strains resulted in restoration of both PKR activity and EIF2-alpha phosphorylation, concomitant with growth suppression due to inhibition of P58(IPK)

Note: This product is for in vitro research use only