Human PRKR-interacting protein 1 (PRKRIP1) ELISA Kit

Catalog No: #EK11414

Package Size: #EK11414-1 48T #EK11414-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human PRKR-interacting protein 1 (PRKRIP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	C114; FLJ13902; FLJ40957; likely ortholog of mouse C114 dsRNA-binding protein
Accession No.	Q9H875
Uniprot	Q9H875
GeneID	79706;
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 PRKRIP1 in samples. An antibody specific for PRKRIP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRKRIP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKRIP1 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 PRKRIP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The C114 cDNA contains an open reading frame of 187 amino acids with a predicted mass of 21 kDa. Using green fluorescent protein (GFP)-C114 fusion plasmids, amino acids 126-131 are shown to be essential for the nuclear localization of C114. An arginine-rich region (amino acids 98-143) spanning the nuclear localization signals (amino acids 126-131) exhibits a double-stranded RNA (dsRNA) binding activity. Competition experiments with different RNA homopolymers demonstrate that C114 preferentially binds to poly(I.C). C114 binds to the dsRNA-activated protein kinase, protein kinase R (PKR), via dsRNA-binding domains of PKR and the N-terminal region of the C114 protein. In vitro kinase assays indicate that C114 inhibits PKR activation via a dsRNA-independent mechanism.

Note: This product is for in vitro research use only