

Human Phosphatidylinositol-4-phosphate 5-kinase type-1 gamma (PIP5K1C) ELISA Kit



Catalog No: #EK8498

Orders: order@signalwayantibody.com

Package Size: #EK8498-1 48T #EK8498-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Phosphatidylinositol-4-phosphate 5-kinase type-1 gamma (PIP5K1C) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA0589; LCCS3; PIP5K-GAMMA; PIP5Kgamma; PIPKIg_v4; Human homolog of mouse phosphatidylinositol-4-phosphate 5-kinase I-gamma PtdIns(4)P-5-kinase diphosphoinositide kinase type I PIP kinase
Accession No.	O60331
Uniprot	O60331
GeneID	23396;
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:31.25-2000 pg/mL

Sensitivity:15.6 pg/mL

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 PIP5K1C in samples. An antibody specific for PIP5K1C has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIP5K1C present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIP5K1C 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 PIP5K1C bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PIP5K1g encodes a member of the type I phosphatidylinositol-4-phosphate 5-kinase family of enzymes. A similar protein in mice is found in synapses and focal adhesion plaques, and binds the FERM domain of talin through its C-terminus.Pip5k1c has 2 alternative splice forms, consisting of 635 and 661 amino acids, that migrated at 87 and 90 kD by SDS-PAGE, respectively. The isoforms differ by the inclusion or exclusion of a 26-amino acid C-terminal tail. Northern blot analysis detected high levels of Pip5k1c expression in mouse brain, lung, and kidney.

AP2 via its mu-2 subunit (AP2M1) directly interacted with the kinase core domain of the PIPK gamma-subunit (PIP5K1C) in vitro and in native protein extracts. Endocytic cargo protein binding to mu-2 stimulated PIPK activity.

Note: This product is for in vitro research use only