Mouse Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta isoform (PIK3CD) ELISA Kit

Catalog No: #EK8506

Package Size: #EK8506-1 48T #EK8506-2 96T

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

Description

Product Name	Mouse Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta isoform (PIK3CD) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	P110DELTA; PI3K; p110D; PI3-kinase p110 subunit delta|catalytic phosphatidylinositol 3-kinase delta|phosphatidylinositol-4;5-bisphosphate 3-kinase catalytic subunit delta|phosphoinositide-3-kinase C
Accession No.	O35904
Uniprot	O35904
GeneID	18707;
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:0.312-20 ng/mL

Sensitivity:0.119 ng/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 PIK3CD in samples. An antibody specific for PIK3CD has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIK3CD present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIK3CD 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 PIK3CD bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Phosphoinositide 3-kinases (PI3Ks) phosphorylate the 3-prime OH position of the inositol ring of inositol lipids. The class I PI3Ks display a broad phosphoinositide lipid substrate specificity and include p110-alpha, p110-beta, and p110-gamma . p110-alpha and p110-beta interact with SH2/SH3-domain-containing p85 adaptor proteins and with GTP-bound Ras.
Like p110-alpha and p110-beta, p110-delta binds p85 adaptor proteins and GTP-bound Ras. These 3 class I PI3Ks were indistinguishable at the level of p85 adaptor protein selection or recruitment to activated receptor complexes. However, unlike p110-alpha, p110-delta does not phosphorylate p85, but instead has an autophosphorylation activity.

Note: This product is for in vitro research use only