

Mouse Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit alpha (PIK3C2A) ELISA Kit

Catalog No: #EK8512

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Package Size: #EK8512-1 48T #EK8512-2 96T

Description

Product Name	Mouse Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit alpha (PIK3C2A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	CPK; DKFZp686L193; MGC142218; PI3-K-C2(ALPHA); PI3-K-C2A; C2-containing phosphatidylinositol kinase PI3K-C2alpha phosphoinositide-3-kinase; class 2 alpha polypeptide
Accession No.	Q61194
Uniprot	Q61194
GeneID	18704;
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:0.156-10 ng/mL

Sensitivity:0.057 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 μ L

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 PIK3C2A in samples. An antibody specific for PIK3C2A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIK3C2A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIK3C2A 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 PIK3C2A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is not sensitive to nanomolar levels of the inhibitor wortmannin. This protein was shown to be able to be activated by insulin and may be involved in integrin-dependent signaling.

Note: This product is for in vitro research use only