

Human Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit gamma (PIK3C2G) ELISA Kit

Catalog No: #EK8510

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Package Size: #EK8510-1 48T #EK8510-2 96T

Description

Product Name	Human Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit gamma (PIK3C2G) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC163149; PI3K-C2GAMMA; PTDINS-3-kinase C2 gamma phosphatidylinositol 3-kinase C2 domain-containing gamma phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing gamma polypeptide phosphoino
Accession No.	O75747
Uniprot	O75747
GeneID	5288;
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:0.625-40 ng/mL

Sensitivity:0.31 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 PIK3C2G in samples. An antibody specific for PIK3C2G has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIK3C2G present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIK3C2G 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 PIK3C2G bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PIK3C2g 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 biological function of this gene has not yet been determined. The deduced 1,486-amino acid protein contains an N-terminal RAS-binding domain followed by a C2 domain, a PIK domain, a catalytic domain, a PX domain, and a C-terminal C2 domain.

Note: This product is for in vitro research use only