# Human Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit beta (PIK3C2B) ELISA Kit

Catalog No: #EK8511

Package Size: #EK8511-1 48T #EK8511-2 96T

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## Description

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|---|---|
| Product Name | Human Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit beta (PIK3C2B) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Human (Homo sapiens) |
| Other Names | RP11-739N20.5; C2-PI3K; DKFZp686G16234; PI3K-C2beta\|PTDINS-3-kinase C2 beta\|phosphatidylinositol 3-kinase C2 domain-containing beta polypeptide\|phosphoinositide-3-kinase; class 2 beta polypeptide |
| Accession No. | O00750 |
| Uniprot | O00750 |
| GeneID | 5287; |
| 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.<br>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:0.31-20 ng/mL

Sensitivity:0.03 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 PIK3C2B in samples. An antibody specific for PIK3C2B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIK3C2B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIK3C2B 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 PIK3C2B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PIK3C2b 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 sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca2+, which suggests that this enzyme may function in a calcium-independent manner.

Note: This product is for in vitro research use only