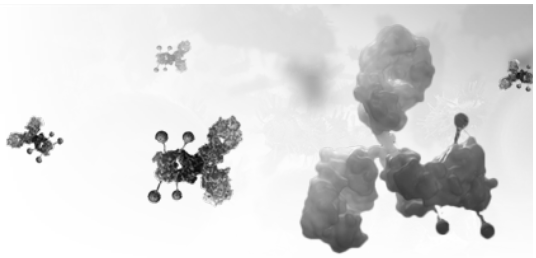

# Human PIK3C2A blocking peptide (CDBP2302)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Product Overview** | Blocking/Immunizing peptide for anti-PIK3C2A antibody |
| **Antigen Description** | 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 wortmanin. This protein was shown to be able to be activated by insulin and may be involved in integrin-dependent signaling. [provided by RefSeq, Jul 2008] |
| **Species** | Human |
| **Conjugate** | Unconjugated |
| **Applications** | Apuri, BL, ELISA |
| **Format** | Lyophilized powder |
| **Size** | 100 µg |
| **Preservative** | None |
| **Storage** | Shipped at ambient temperature, store at -20°C. |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | PIK3C2A phosphoinositide-3-kinase, class 2, alpha polypeptide [ Homo sapiens ] |
| **Official Symbol** | PIK3C2A |

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|---|---|
| **Synonyms** | PIK3C2A; phosphoinositide-3-kinase, class 2, alpha polypeptide; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit alpha; PI3K C2alpha; PI3K-C2alpha; PI3K-C2-alpha; ptdIns-3-kinase C2 subunit alpha; phosphoinositide 3-kinase-C2-alpha; C2-containing phosphatidylinositol kinase; CPK; PI3-K-C2A; MGC142218; PI3-K-C2(ALPHA); DKFZp686L193; |
| **Entrez Gene ID** | 5286 |
| **mRNA Refseq** | NM_002645 |
| **Protein Refseq** | NP_002636 |
| **UniProt ID** | O00443 |
| **Chromosome Location** | 11p15.5-p14 |
| **Pathway** | 3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Insulin Signaling, organism-specific biosystem; |
| **Function** | 1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; binding; nucleotide binding; phosphatidylinositol 3-kinase activity; phosphatidylinositol binding; phosphotransferase activity, alcohol group as a |

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