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PI3KC2G Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8012a

Specification

PI3KC2G Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O75747

PI3KC2G Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5288

Other Names
Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit gamma, PI3K-C2-gamma, PtdIns-3-kinase C2 subunit gamma, Phosphoinositide 3-kinase-C2-gamma, PIK3C2G

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8012a was selected from the N-term region of human PI3KC2G . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PI3KC2G Antibody (N-term) Blocking Peptide - Protein Information

Name PIK3C2G

Function
Generates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) that act as second messengers (By similarity). May play a role in SDF1A-stimulated chemotaxis (By similarity).

Cellular Location
Membrane {ECO:0000250|UniProtKB:O70167}; Peripheral membrane protein {ECO:0000250|UniProtKB:O70167}

Tissue Location
Highly expressed in liver, prostate and testis. Lower levels in small intestine, kidney and pancreas

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PI3KC2G Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PI3KC2G Antibody (N-term) Blocking Peptide - Images

PI3KC2G Antibody (N-term) Blocking Peptide - Background

PI3KC2G 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.

PI3KC2G Antibody (N-term) Blocking Peptide - References

Rozycka, M., et al., Genomics 54(3):569-574 (1998).