

**PI3KC2G Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8012b****Specification**

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**PI3KC2G Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O75747](#)**PI3KC2G Antibody (C-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 [AP8012b](/product/products/AP8012b) was selected from the C-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 (C-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

### **PI3KC2G Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **PI3KC2G Antibody (C-term) Blocking Peptide - Images**

### **PI3KC2G Antibody (C-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 (C-term) Blocking Peptide - References**

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