

**PIK4CB Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6948a****Specification**

---

**PIK4CB Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9UBF8](#)**PIK4CB Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 5298

**Other Names**

Phosphatidylinositol 4-kinase beta, PI4K-beta, PI4Kbeta, PtdIns 4-kinase beta, NPIK, PI4K92, PI4KB, PIK4CB

**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.

**PIK4CB Antibody (N-term) Blocking Peptide - Protein Information**Name PI4KB ([HGNC:8984](#))

Synonyms PIK4CB

**Function**

Phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol- 1,4,5,-trisphosphate (PIP). May regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation. Involved in Golgi-to-plasma membrane trafficking (By similarity) (PubMed: <a href="http://www.uniprot.org/citations/10559940" target="\_blank">10559940</a>, PubMed: <a href="http://www.uniprot.org/citations/11277933" target="\_blank">11277933</a>, PubMed: <a href="http://www.uniprot.org/citations/12749687" target="\_blank">12749687</a>, PubMed: <a href="http://www.uniprot.org/citations/9405935" target="\_blank">9405935</a>). May play an important role in the inner ear development.

**Cellular Location**

Endomembrane system. Mitochondrion outer membrane; Peripheral membrane protein. Rough endoplasmic reticulum membrane; Peripheral membrane protein. Golgi apparatus. Golgi apparatus membrane. Cytoplasm, perinuclear region. Note=Found in the outer membrane of mitochondria and membranes of the rough endoplasmic reticulum. Recruited to the Golgi complex by the small GTPase ARF to stimulate the synthesis of phosphatidylinositol 4,5- bisphosphate (PIP2) on the

Golgi complex. Recruited to the Golgi apparatus membrane by ACBD3 (PubMed:24672044, PubMed:27009356, PubMed:28289207). GGA2 is also involved in the recruitment (PubMed:28289207).

**Tissue Location**

Widely expressed with highest levels in heart, skeletal muscle, pancreas, testis and ovary. Weakly expressed in liver (PubMed:9020160, PubMed:9405935, PubMed:9405938). Expressed in the inner ear in the epithelium of the spiral organ of Corti

**PIK4CB Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PIK4CB Antibody (N-term) Blocking Peptide - Images****PIK4CB Antibody (N-term) Blocking Peptide - Background**

PIK4CB phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol-1,4,5,-trisphosphate (PIP). It may regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation.

**PIK4CB Antibody (N-term) Blocking Peptide - References**

Jeganathan, S., et al., Mol. Cell. Biol. 28 (14), 4549-4561 (2008) Pizarro-Cerda, J., et al., Cell. Microbiol. 9 (10), 2381-2390 (2007)