

**ITPKC Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9326a****Specification**

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**ITPKC Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q96DU7](#)**ITPKC Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 80271**Other Names**

Inositol-trisphosphate 3-kinase C, Inositol 1, 5-trisphosphate 3-kinase C, IP3 3-kinase C, IP3K C, InsP 3-kinase C, ITPKC, IP3KC

**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.

**ITPKC Antibody (N-term) Blocking Peptide - Protein Information****Name** ITPKC ([HGNC:14897](#))**Synonyms** IP3KC**Function**

Catalyzes the phosphorylation of 1D-myo-inositol 1,4,5- trisphosphate (InsP3) into 1D-myo-inositol 1,3,4,5-tetrakisphosphate and participates to the regulation of calcium homeostasis (PubMed:&lt;a href="http://www.uniprot.org/citations/11085927" target="\_blank"&gt;11085927&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/12747803" target="\_blank"&gt;12747803&lt;/a&gt;). Can phosphorylate inositol 2,4,5- triphosphate to inositol 2,4,5,6-tetraphosphate (By similarity).

**Cellular Location**

Nucleus. Cytoplasm. Note=Shuttles actively between nucleus and cytoplasm with both nuclear import and nuclear export activity {ECO:0000250|UniProtKB:Q80ZG2}

**Tissue Location**

Highly expressed in pancreas, skeletal muscle, liver, placenta and weakly in kidney and brain

## **ITPKC Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **ITPKC Antibody (N-term) Blocking Peptide - Images**

## **ITPKC Antibody (N-term) Blocking Peptide - Background**

ITPKC encodes a member of the inositol 1,4,5-trisphosphate [Ins(1,4,5)P(3)] 3-kinase family of enzymes that catalyze the phosphorylation of inositol 1,4,5-trisphosphate to 1,3,4,5-tetrakisphosphate. The encoded protein is localized to the nucleus and cytoplasm and has both nuclear import and nuclear export activity. Single nucleotide polymorphisms in this gene are associated with Kawasaki disease.

## **ITPKC Antibody (N-term) Blocking Peptide - References**

Chi,H. Hum. Mol. Genet. 19 (6), 1147-1151 (2010)Onouchi,Y. Nat. Genet. 40 (1), 35-42 (2008)Nalaskowski,M.M. Biol. Chem. 387 (5), 583-593 (2006)