

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

ITPKC Antibody (N-term) Blocking Peptide - Product InformationPrimary 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:11085927, PubMed:12747803). 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)