

ITPKC Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9326A**Specification**

ITPKC Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	Q96DU7
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	75207
Antigen Region	89-117

ITPKC Antibody (N-term) - 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

Target/Specificity

This ITPKC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-117 amino acids from the N-terminal region of human ITPKC.

DilutionWB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ITPKC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ITPKC Antibody (N-term) - 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-trisphosphate 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

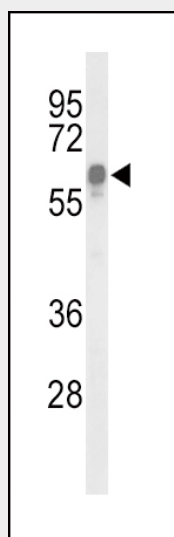
Highly expressed in pancreas, skeletal muscle, liver, placenta and weakly in kidney and brain

ITPKC Antibody (N-term) - Protocols

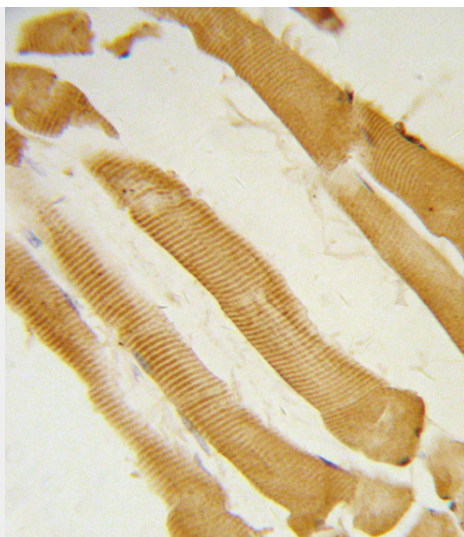
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

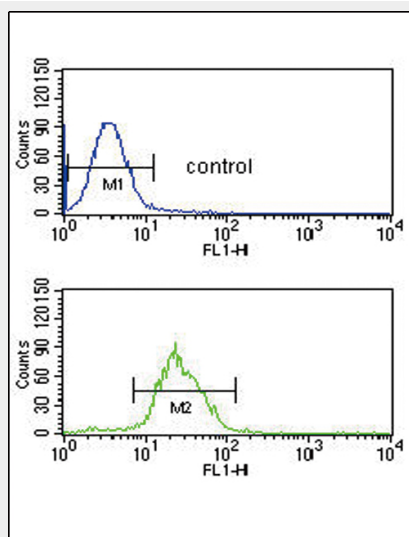
ITPKC Antibody (N-term) - Images



Western blot analysis of ITPKC Antibody (N-term) (Cat. #AP9326a) in HepG2 cell line lysates (35ug/lane). ITPKC (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with ITPKC Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ITPKC Antibody (N-term) (Cat. #AP9326a) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ITPKC Antibody (N-term) - 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) - 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)