

ITPKB Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8167b**Specification**

ITPKB Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [P27987](#)
Other Accession [NP_002212](#)

ITPKB Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 3707

Other Names

Inositol-trisphosphate 3-kinase B, Inositol 1, 5-trisphosphate 3-kinase B, IP3 3-kinase B, IP3K B, InsP 3-kinase B, ITPKB

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8167b](/product/products/AP8167b) was selected from the C-term region of human ITPKB . 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.

ITPKB Antibody (C-term) Blocking Peptide - Protein Information

Name ITPKB ([HGNC:6179](#))

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.

Cellular Location

Cytoplasm, cytoskeleton. Cytoplasm Endoplasmic reticulum

ITPKB Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ITPKB Antibody (C-term) Blocking Peptide - Images

ITPKB Antibody (C-term) Blocking Peptide - Background

ITPKB regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P₄. The activity of this encoded protein is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity.

ITPKB Antibody (C-term) Blocking Peptide - References

Dewaste, V., et al., Biochem. Biophys. Res. Commun. 291(2):400-405 (2002). Woodring, P.J., et al., J. Biol. Chem. 272(48):30447-30454 (1997). Erneux, C., et al., Genomics 14(2):546-547 (1992). Takazawa, K., et al., Biochem. J. 272(1):107-112 (1990). Takazawa, K., et al., Biochem. J. 278 (PT 3), 883-886 (1991) (): ().