

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

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**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)P<sub>4</sub>. 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) ( ): ( ).