

**INPP5K Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8767c****Specification**

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**INPP5K Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9BT40](#)**INPP5K Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 51763**Other Names**

Inositol polyphosphate 5-phosphatase K, Skeletal muscle and kidney-enriched inositol phosphatase, INPP5K, PPS, SKIP

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8767c](/products/AP8767c) was selected from the Center region of human INPP5K. 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.

**INPP5K Antibody (Center) Blocking Peptide - Protein Information****Name** INPP5K ([HGNC:33882](#))**Function**

Inositol 5-phosphatase which acts on inositol 1,4,5- trisphosphate, inositol 1,3,4,5-tetrakisphosphate, phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate (PubMed: [10753883](http://www.uniprot.org/citations/10753883), PubMed: [16824732](http://www.uniprot.org/citations/16824732)). Has 6-fold higher affinity for phosphatidylinositol 4,5-bisphosphate than for inositol 1,4,5- trisphosphate (PubMed: [10753883](http://www.uniprot.org/citations/10753883)). Negatively regulates assembly of the actin cytoskeleton. Controls insulin-dependent glucose uptake among inositol 3,4,5-trisphosphate phosphatases; therefore, is the specific regulator for insulin signaling in skeletal muscle (By similarity).

**Cellular Location**

Endoplasmic reticulum. Cytoplasm Note=Following stimulation with EGF, translocates to membrane ruffles (PubMed:12536145, PubMed:26940976). Concentrated at the periphery of the nucleus (PubMed:10753883).

**Tissue Location**

Ubiquitously expressed with highest levels in skeletal muscle, heart and kidney.

**INPP5K Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**INPP5K Antibody (Center) Blocking Peptide - Images****INPP5K Antibody (Center) Blocking Peptide - Background**

INPP5K is a protein with 5-phosphatase activity toward polyphosphate inositol. The protein localizes to the cytosol in regions lacking actin stress fibers. It is thought that this protein may negatively regulate the actin cytoskeleton.

**INPP5K Antibody (Center) Blocking Peptide - References**

Ijuin,T. et.al., Mol. Cell. Biol. 23 (4), 1209-1220 (2003)