

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

INPP5K Antibody (Center) Blocking Peptide - Product InformationPrimary 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)