

# **INPP5K Antibody (Center) Blocking Peptide**

Synthetic peptide Catalog # BP8767c

# **Specification**

# 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 <a href=/products/AP8767c>AP8767c</a> 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**

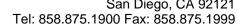
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### 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:<a href="http://www.uniprot.org/citations/10753883" target="\_blank">10753883</a>, PubMed:<a href="http://www.uniprot.org/citations/16824732" target="\_blank">16824732</a>). Has 6-fold higher affinity for phosphatidylinositol 4,5-bisphosphate than for inositol 1,4,5- trisphosphate (PubMed:<a href="http://www.uniprot.org/citations/10753883" target="\_blank">10753883</a>). 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)