

INPP5E Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11230c**Specification**

INPP5E Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q9NRR6](#)**INPP5E Antibody (Center) Blocking peptide - Additional Information****Gene ID** 56623**Other Names**

72 kDa inositol polyphosphate 5-phosphatase, Phosphatidylinositol 4, 5-bisphosphate 5-phosphatase, Phosphatidylinositol polyphosphate 5-phosphatase type IV, INPP5E

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.

INPP5E Antibody (Center) Blocking peptide - Protein Information**Name** INPP5E**Function**

Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3), phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) and phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:10764818) (By similarity). Specific for lipid substrates, inactive towards water soluble inositol phosphates (PubMed:10764818). Plays an essential role in the primary cilium by controlling ciliary growth and phosphoinositide 3-kinase (PI3K) signaling and stability (By similarity).

Cellular Location

Cytoplasm, cytoskeleton, cilium axoneme. Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:Q9JII1}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9JII1}; Cytoplasmic side {ECO:0000250|UniProtKB:Q9JII1}. Cell membrane {ECO:0000250|UniProtKB:Q9WVR1}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9WVR1}; Cytoplasmic side {ECO:0000250|UniProtKB:Q9WVR1}. Cell projection, ruffle {ECO:0000250|UniProtKB:Q9WVR1}. Cytoplasm {ECO:0000250|UniProtKB:Q9WVR1}. Nucleus {ECO:0000250|UniProtKB:Q9JII1} Note=Peripheral

membrane protein associated with Golgi stacks {ECO:0000250|UniProtKB:Q9JII1}

Tissue Location

Detected in brain, heart, pancreas, testis and spleen.

INPP5E Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

INPP5E Antibody (Center) Blocking peptide - Images**INPP5E Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase. InsP3 5-phosphatases hydrolyze Ins(1,4,5)P₃, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation. Studies of the mouse counterpart suggest that this protein may hydrolyze phosphatidylinositol 3,4, 5-trisphosphate and phosphatidylinositol 3,5-bisphosphate on the cytoplasmic Golgi membrane and thereby regulate Golgi-vesicular trafficking.

INPP5E Antibody (Center) Blocking peptide - References

Bielas, S.L., et al. Nat. Genet. 41(9):1032-1036(2009) Jacoby, M., et al. Nat. Genet. 41(9):1027-1031(2009) Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Jin, J., et al. Curr. Biol. 14(16):1436-1450(2004) Kong, A.M., et al. J. Biol. Chem. 275(31):24052-24064(2000)