

Anti-INPP5E Antibody

Catalog # AP53773

Product Information

Application	WB, IF/IC
Primary Accession	Q9NRR6
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70205

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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human INPP5E. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

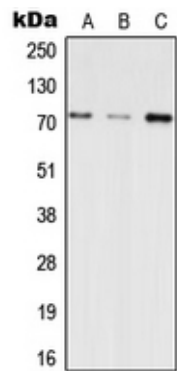
Protein Information

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) (By similarity) (PubMed: 10764818). Specific for lipid substrates, inactive towards water soluble inositol phosphates (PubMed: 10764818). Can also remove the 5-phosphate from 1D-myo-inositol 1,4,5-trisphosphate (Ins(1,4,5)P3) (PubMed: 40969890). 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

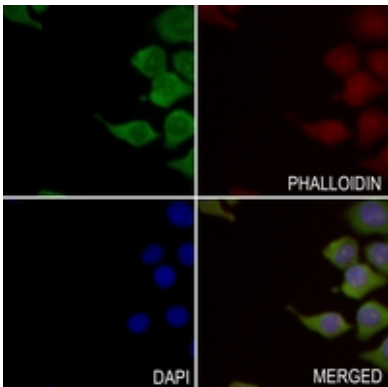
{ECO:0000250|UniProtKB:Q9JII1}. Cell membrane
{ECO:0000250|UniProtKB:Q9WVR1}; Peripheral membrane protein
{ECO:0000250|UniProtKB:Q9WVR1}; Cytoplasmic side
{ECO:0000250|UniProtKB:Q9WVR1}. Cell projection, ruffle
{ECO:0000250|UniProtKB:Q9WVR1}. Cytoplasm
{ECO:0000250|UniProtKB:Q9WVR1}. Nucleus
{ECO:0000250|UniProtKB:Q9JII1} Note=Peripheral membrane protein associated with Golgi stacks {ECO:0000250|UniProtKB:Q9JII1}

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

Images



Western blot analysis of INPP5E expression in HEK293T (A), SP2/0 (B), H9C2 (C) whole cell lysates. (Predicted band size: 70 kD; Observed band size: 70 kD)



Immunofluorescent analysis of INPP5E staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.