INP5E Monoclonal Antibody

Catalog No	YP-mAb-05260
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	INPP5E
Protein Name	72 kDa inositol polyphosphate 5-phosphatase (EC 3.1.3.36) (Phosphatidylinositol 4,5-bisphosphate 5-phosphatase) (Phosphatidylinositol polyphosphate 5-phosphatase type IV)
Immunogen	Synthesized peptide derived from human protein . at AA range: 490-570
Specificity	INP5E Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	70kD
Cell Pathway	Cytoplasm, cytoskeleton, cilium axoneme . Golgi apparatus, Golgi stack membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell projection, ruffle . Cytoplasm . Nucleus . Peripheral membrane protein associated with Golgi stacks. .
Tissue Specificity	Detected in brain, heart, pancreas, testis and spleen.
Function	catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1-phosphatidyl-1D-myo-inositol 4-phosphate + phosphate.,function:Converts phosphatidylinositol-3,4,5-triphosphate (PtdIns 3,4,5-P3) to PtdIns-P2. Specific for lipid substrates, inactive towards water soluble inositol phosphates.,miscellaneous:Active in the presence of octyl-glucoside or Triton X-100, but completely inhibited by CTAB.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Several sequencing problems.,similarity:Belongs to the inositol-1,4,5-trisphosphate 5-phosphatase type IV family.,subcellular location:Peripheral membrane protein associated with Golgi stacks.,tissue specificity:Detected in brain, heart, pancreas, testis and spleen.,

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. Mutations in this gene cause Joubert syndrome; a clinically and genetically heterogenous group of disorders characterized by midbrain-hindbrain malformation and various associated ciliopathies that include retinal dystrophy, nephronophthisis, liver fibrosis and polydactyly. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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