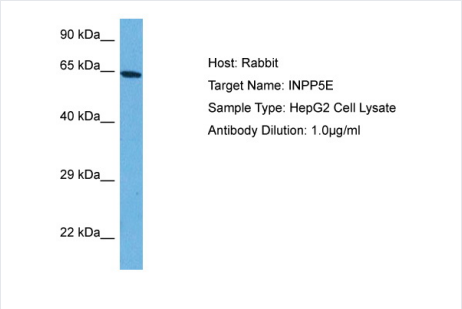
INPP5E Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	INPP5E, Polyclonal Antibody
Full Product Name	INPP5E Antibody - middle region
Product Gene Name	anti-INPP5E antibody
Product Synonym Gene Name	CPD4; CORS1; JBTS1; MORMS; PPI5PIV
Immunogen Sequence	Synthetic peptide located within the following region: SLQEIPKSRG VLSSERGSPS SGGNPLSGVA SSSPNLPHRD AAVAGSSPRL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	INPP5E peptide (MBS3246131) is used for blocking the activity of INPP5E antibody (MBS3221385)
Molecular Weight	67 kDa
OMIM	phenotype 613037
3D Structure	ModBase 3D Structure for Q9NRR6
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human INPP5E
Product Categories/Family for anti-INPP5E antibody	Polyclonal; Signaling Intermediate; Membrane & Traffic; Disease Related
Applications Tested/Suitable for anti-INPP5E antibody	Western Blot (WB)
Related Product Information for anti-INPP5E antibody	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.
Other Notes	Small volumes of anti-INPP5E antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for INPP5E purchase	MBS3221385 is an antibody targeting INPP5E. Also known as INPP5E Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-INPP5E antibody
Host: RabbitTarget Name: INPP5ESample Tissue: Human HepG2 Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for INPP5E. It may not necessarily be applicable to this product.

NCBI GI #	38327539
NCBI GeneID	56623
NCBI Accession #	NP_063945.2
UniProt Primary Accession #	Q9NRR6
UniProt Related Accession #	Q9NRR6
GenBank Nucleotide #	NM_019892.4
NCBI Official Full Name	72 kDa inositol polyphosphate 5-phosphatase isoform 1
NCBI Official Synonym Full Names	inositol polyphosphate-5-phosphatase E
NCBI Official Symbol	INPP5E
NCBI Official Synonym Symbols	CPD4; CORS1; JBTS1; MORMS; PPI5PIV; pharbin
UniProt Protein Name	72 kDa inositol polyphosphate 5-phosphatase
UniProt Synonym Protein Names	Phosphatidylinositol 4,5-bisphosphate 5-phosphatase; Phosphatidylinositol polyphosphate 5-phosphatase type IV
Protein Family	72 kDa inositol polyphosphate 5-phosphatase
UniProt Gene Name	INPP5E
UniProt Entry Name	INP5E_HUMAN
NCBI Protein Information	72 kDa inositol polyphosphate 5-phosphatase

UniProt Comments for INPP5E	INPP5E: Converts phosphatidylinositol 3,4,5-trisphosphate (PtdIns 3,4,5-P3) to PtdIns-P2. Specific for lipid substrates, inactive towards water soluble inositol phosphates. Defects in INPP5E are the cause of Joubert syndrome type 1 (JBTS1). A disorder presenting with cerebellar ataxia, oculomotor apraxia, hypotonia, neonatal breathing abnormalities and psychomotor delay. Neuroradiologically, it is characterized by cerebellar vermian hypoplasia/aplasia, thickened and reoriented superior cerebellar peduncles, and an abnormally large interpeduncular fossa, giving the appearance of a molar tooth on transaxial slices (molar tooth sign). Additional variable features include retinal dystrophy and renal disease. Defects in INPP5E are the cause of mental retardation- truncal obesity-retinal dystrophy-micropenis (MORMS). An autosomal recessive disorder characterized by moderate mental retardation, truncal obesity, congenital non-progressive retinal dystrophy, and micropenis in males. The phenotype is similar to Bardet-Biedl syndrome and Cohen syndrome Distinguishing features are the age of onset, the non-progressive nature of the visual impairment, lack of dysmorphic facies, skin or gingival infection, microcephaly, mottled retina, polydactyly, and testicular anomalies. Belongs to the inositol 1,4,5-trisphosphate 5-phosphatase type IV family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Phosphatase (non-protein); Carbohydrate Metabolism - inositol phosphate; EC 3.1.3.36 Chromosomal Location of Human Ortholog: 9q34.3 Cellular Component: ruffle; cytoskeleton; plasma membrane; axoneme; cytosol Molecular Function: phosphoinositide 5-phosphatase activity; inositol-polyphosphate 5-phosphatase activity Biological Process: phospholipid metabolic process; organelle organization and biogenesis; inositol phosphate dephosphorylation; phosphatidylinositol biosynthetic process; phosphoinositide dephosphorylation Disease: Mental Retardation, Truncal Obesity, Retinal Dystrophy, And Micropenis Syndrome; Joubert Syndrome 1
Research Articles on INPP5E	**1.** miR598 contributed to cell proliferation and cell cycle progression in colorectal carcinoma by targeting INPP5E.
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