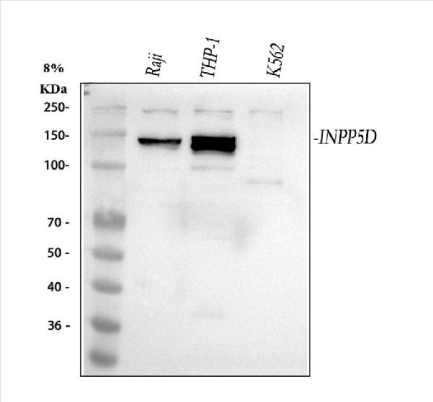
INPP5D Antibody – Rabbit Polyclonal

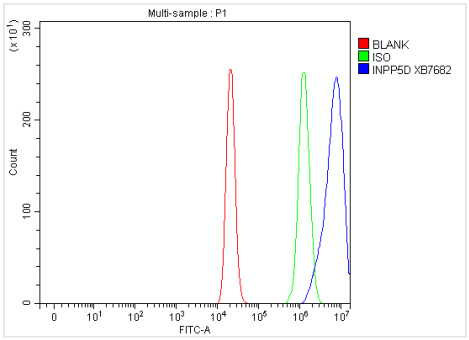
PRODUCT OVERVIEW

Product Name	INPP5D, Polyclonal Antibody
Full Product Name	Anti-INPP5D Antibody Picoband
Product Gene Name	anti-INPP5D antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	133,292 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (233925036..233995880). Location: 2q37.1
OMIM	601582
3D Structure	ModBase 3D Structure for Q92835
Immunogen	E coli-derived human INPP5D recombinant protein (Position: Q81-E1093). Human INPP5D shares 87.6% and 87.5% amino acid (aa) sequence identity with mouse and rat INPP5D, respectively.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Product Categories/Family for anti-INPP5D antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.

Applications Tested/Suitable for anti-INPP5D antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-INPP5D antibody	WB: 0.1-0.25ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-INPP5D antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-INPP5D antibody	1. "Entrez Gene: INPP5D inositol polyphosphate-5-phosphatase, 145kDa".2. Dunant NM, Wisniewski D, Strife A, Clarkson B, Resh MD (May 2000). "The phosphatidylinositol polyphosphate 5-phosphatase SHIP1 associates with the dok1 phosphoprotein in bcr-Abl transformed cells". Cellular Signalling. 12 (5): 317-26.
Other Notes	Small volumes of anti-INPP5D 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 INPP5D purchase	MBS1758388 is an antibody targeting INPP5D. Also known as Anti-INPP5D Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-INPP5D antibody
Figure 1. Western blot analysis of INPP5D using anti-INPP5D antibody (MBS1758388).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Raji whole cell lysates,Lane 2: human THP-1 whole cell lysates,Lane 3: human K562 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-INPP5D antigen affinity purified polyclonal antibody (#MBS1758388) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for INPP5D at approximately 145 kDa. The expected band size for INPP5D is at 133 kDa.



Flow Cytometry (FC/FACS) of anti-INPP5D antibody
Figure 2. Flow Cytometry analysis of THP-1 cells using anti-INPP5D antibody (MBS1758388).Overlay histogram showing THP-1 cells stained with MBS1758388 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-INPP5D Antibody (MBS1758388, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for INPP5D. It may not necessarily be applicable to this product.

NCBI GI #	64085167
NCBI GeneID	3635
NCBI Accession #	NP_001017915.1
UniProt Primary Accession #	Q92835
UniProt Secondary Accession #	O00145; Q13544; Q13545; Q6P5A4; Q92656; Q9UE80
UniProt Related Accession #	Q92835

GenBank Nucleotide #	NM_001017915.1
NCBI Official Full Name	phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1 isoform a
NCBI Official Synonym Full Names	inositol polyphosphate-5-phosphatase, 145kDa
NCBI Official Symbol	INPP5D
NCBI Official Synonym Symbols	SHIP; SHIP1; SHIP-1; hp51CN; SIP-145
UniProt Protein Name	Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1
UniProt Synonym Protein Names	Inositol polyphosphate-5-phosphatase of 145 kDa; SIP-145; SH2 domain-containing inositol 5'-phosphatase 1; SH2 domain-containing inositol phosphatase 1; SHIP-1; p150Ship
Protein Family	Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase
UniProt Gene Name	INPP5D
UniProt Synonym Gene Names	SHIP; SHIP1; SIP-145; SH2 domain-containing inositol phosphatase 1; SHIP-1; hp51CN
UniProt Entry Name	SHIP1_HUMAN
NCBI Protein Information	phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1; p150Ship; SH2 domain-containing inositol phosphatase 1; SH2 containing inositol phosphatase, isoform b; SH2 domain-containing inositol 5'-phosphatase 1; SH2 domain-containing inositol-5'-phosphatas
NCBI Summary for INPP5D	This gene is a member of the inositol polyphosphate-5-phosphatase (INPP5) family and encodes a protein with an N-terminal SH2 domain, an inositol phosphatase domain, and two C-terminal protein interaction domains. Expression of this protein is restricted to hematopoietic cells where its movement from the cytosol to the plasma membrane is mediated by tyrosine phosphorylation. At the plasma membrane, the protein hydrolyzes the 5' phosphate from phosphatidylinositol (3,4,5)-trisphosphate and inositol-1,3,4,5-tetrakisphosphate, thereby affecting multiple signaling pathways. Overall, the protein functions as a negative regulator of myeliod cell proliferation and survival. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for INPP5D	SHIP: an SH2-containing inositol phosphatase. A hemopoietic-specific phosphatase that regulates cell survival, growth, cell cycle arrest and apoptosis. Hydrolyzes Ins(1,3,4,5)P4 and PtdIns(3,4,5)P3. A cytosolic protein with a SH2 domain in its N-terminus and two NPXY Shc binding motifs at its C-terminus. Upon receptor cross-linking, SHIP is first recruited to the plasma membrane by its SH2, followed by tyrosine phosphorylation on the NPXY motif. Both membrane relocalization and phosphorylation are essential for its regulatory function. Associates with SHC after cytokine stimulation. Protein type: Motility/polarity/chemotaxis; Phosphatase, lipid; EC 3.1.3.86 Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: membrane; cytosol Molecular Function: protein binding; inositol-polyphosphate 5-phosphatase activity; SH3 domain binding Biological Process: inositol phosphate metabolic process; apoptosis; phospholipid metabolic process; phosphatidylinositol biosynthetic process; phosphoinositide dephosphorylation; signal transduction; blood coagulation; leukocyte migration; phosphate metabolic process; T cell receptor signaling pathway
Research Articles on INPP5D	**1.** Mutation in the PxxP domain of SHIP affects cell migration and invasion ability of K562 cells through increased MMP-9 expression, FAK phosphorylation and NF-kappaB activation.
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