

Rabbit INPP4B Polyclonal Antibody | anti-INPP4B antibody

INPP4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40841	Rabbit	Human, Mouse, Rat	Immunocytochemistry, Western Blot, ELISA

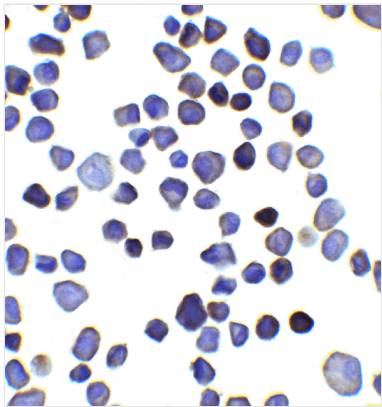
PRODUCT SYNONYMS

INPP4B; Polyclonal Antibody; INPP4B Antibody; Inositol polyphosphate-4-phosphatase type II 105kDa; anti-INPP4B antibody

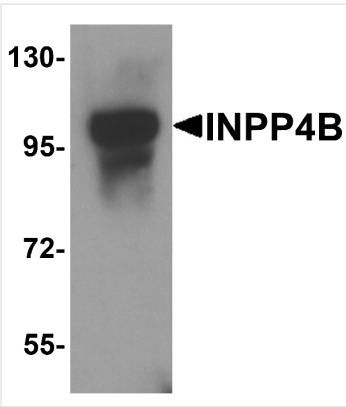
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	INPP4B antibody is human, mouse and rat reactive. At least two isoforms of INPP4B are known to exist; this antibody only detects the longer isoform. INPP4B antibody is predicted to not cross-react with INPP4A.
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	924
Applicable Applications for anti-INPP4B antibody	ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	INPP4B antibody was raised against a 17 amino acid peptide near the amino terminus of human INPP4B.
Buffer	Supplied in PBS containing 0.02% sodium azide.
Positive Control 1	3T3 Cell Lysate
Conjugate	Unconjugated
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



ICC (Immunocytochemistry)
Immunocytochemistry of INPP4B in 3T3 cells with INPP4B antibody at 2.5 μg/ml.



WB (Western Blot)
Western blot analysis of INPP4B in 3T3 cell lysate with INPP4B antibody at 1 μg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-INPP4B antibody	Inositol polyphosphate 4-phosphatase type II (INPP4B) is one of the enzymes involved in phosphatidylinositol signaling pathways. It removes the phosphate group at position 4 of the inositol ring from inositol 3,4-bisphosphate (1). INPP4B can function as a tumor suppressor by inhibiting PI3K signaling. In human epithelial cells, knockdown of INPP4B expression resulted in enhanced Akt activation, anchorage-independent growth, and enhanced overall motility (2). It is thought INPP4B may also have oncogenic functions as INPP4B-dependent PI3K signaling is mediated by SGK3 in breast cancer cells and expression of INPP4B leads to enhanced SGK3 activation and suppression of AKT phosphorylation (3).
Product Categories/Family for anti-INPP4B antibody	Cancer; Cell Cycle
References	Norris FA, Auethavekiat V, and Majerus PW. The isolation and characterization of cDNA encoding human and rat brain inositol polyphosphate 4-phosphatase. J. Biol. Chem. 1995; 270:16128-33. Gewinner C, Wang ZC, Richardson A, et al. Evidence that inositol polyphosphate 4-phosphatase type II is a tumor suppressor that inhibits PI3K signaling. Cancer Cell 2009; 16:115-25. Gasser JA, Inuzuka H, Lau AW, et al. SGK3 mediates INPP4B-dependent PI3K signaling in breast cancer. Mol. Cell 2014; 56:595-607.

NCBI AND UNIPROT INFORMATION

NCBI GI #	156104895
NCBI GeneID	8821
NCBI Accession #	NP_003857
NCBI GenBank Nucleotide #	NM_003866.2
UniProt Accession #	Q9BS68; Q2TAI2; Q5XLE7; Q6IN59; Q6PJB4; O15327
Molecular Weight	Predicted: 102 kDa Observed: 100 kDa
NCBI Official Full Name	type II inositol 3,4-bisphosphate 4-phosphatase
NCBI Official Synonym Full Names	inositol polyphosphate-4-phosphatase type II B
NCBI Official Symbol	INPP4B
NCBI Protein Information	type II inositol 3,4-bisphosphate 4-phosphatase
UniProt Protein Name	Type II inositol 3,4-bisphosphate 4-phosphatase
UniProt Gene Name	INPP4B
UniProt Entry Name	INP4B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/inpp4b-antibody-immunocytochemistry-western-blot-elisa/40841>