



Rabbit Anti-INPP5B antibody

SL16671R

Product Name:	INPP5B
Chinese Name:	聚磷酸肌醇磷酸酶5B抗体
Alias:	5-trisphosphate 5-phosphatase; 5PTase; 75 kDa inositol polyphosphate 5 phosphatase; 75 kDa inositol polyphosphate-5-phosphatase; 75kDa; EC 3.1.3.36; I5P2_HUMAN; Inositol polyphosphate 5-phosphatase II; Inositol polyphosphate-5-phosphatase B; Inositol polyphosphate-5-phosphatase, 75kDa; INPP5B; Inpp5b protein; INPP5P; MGC65156; MGC71303; OTTHUMP00000004726; OTTHUMP00000004727; OTTHUMP00000004728; Phosphoinositide 5 phosphatase; Phosphoinositide 5-phosphatase; Type II inositol 1,4,5 trisphosphate 5 phosphatase; Type II inositol-1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	112kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human INPP5B:701-800/993
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Cellular calcium signaling is controlled by the production of inositol phosphates (IPs)

by phospholipase C in response to extracellular signals. The IP signaling molecules are inactivated by a family of inositol polyphosphate-5-phosphatases (5-phosphatases). This gene encodes the type II 5-phosphatase. The protein is localized to the cytosol and mitochondria, and associates with membranes through an isoprenyl modification near the C-terminus. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]

Function:

Hydrolyzes phosphatidylinositol 4,5-bisphosphate (PtIns(4,5)P₂) and the signaling molecule phosphatidylinositol 1,4,5-trisphosphate (PtIns(1,4,5)P₃), and thereby modulates cellular signaling events. {ECO:0000269|PubMed:7721860}.

Subunit:

Interacts with APPL1, FAM109A and FAM109B. Interacts with several Rab GTPases, at least RAB1A, RAB2A, RAB5A, RAB6A, RAB8A, RAB9A and RAB33B; these interactions may play a dual role in targeting INPP5B to the specific membranes and stimulating the phosphatase activity. {ECO:0000269|PubMed:17956944, ECO:0000269|PubMed:20133602, ECO:0000269|PubMed:21233288, ECO:0000269|Ref.10}.

Subcellular Location:

Cytoplasm, cytosol. Endoplasmic reticulum-Golgi intermediate compartment. Early endosome membrane. Membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle, phagosome membrane {ECO:0000250}. Golgi apparatus.

Tissue Specificity:

Platelets.

Post-translational modifications:

Isoprenylation at Cys-990 may be required for localization at the membrane. {ECO:0000269|PubMed:7721860}.

May be proteolytically cleaved after Lys-320 as inferred from N-terminal protein sequence of the 75 kda form. {ECO:0000269|PubMed:1718960}.

Similarity:

Belongs to the inositol-1,4,5-trisphosphate 5-phosphatase type II family. Contains 1 Rho-GAP domain.

SWISS:

P32019

Gene ID:

3633

Database links:

[Entrez Gene: 3633](#) Human

[Entrez Gene: 16330](#) Mouse

[Entrez Gene: 362590](#) Rat

[Omim: 147264](#) Human

[SwissProt: P32019](#) Human

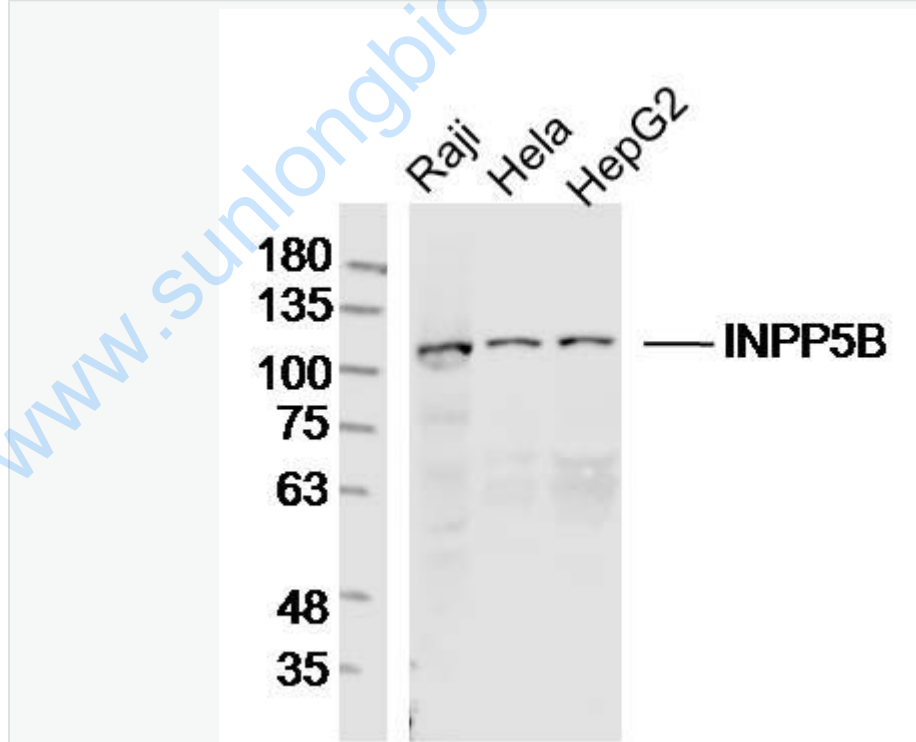
[SwissProt: O54996](#) Mouse

[Unigene: 449942](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Raji (Human) Cell Lysate at 40 ug

Hela (Human) Cell Lysate at 40 ug

HepG2 (Human) Cell Lysate at 40 ug

Primary: Anti-INPP5B(SL16671R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 112kD

Observed band size: 112kD

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