

Rabbit INPPL1 Polyclonal Antibody | anti-INPPL1 antibody

Anti-INPPL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124934	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

INPPL1; Polyclonal Antibody; Anti-INPPL1 Antibody; Phosphatidylinositol 3; 4; 5-trisphosphate 5-phosphatase 2; Inositol polyphosphate phosphatase-like protein 1; INPPL-1; Protein 51C; SH2 domain-containing inositol 5'-phosphatase 2; SH2 domain-containing inositol phosphatase 2; SHIP-2; SHIP2; Inositol polyphosphate phosphatase-like 1; anti-INPPL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	1,016
Applicable Applications for anti-INPPL1 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human INPPL1 recombinant protein (Position: R1172-K1258).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of INPPL1 using anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of human ovary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 antibody. INPPL1 was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-INPPL1 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of INPPL1 using anti-INPPL1 antibody. 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 50ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human Hela whole cell lysate, Lane 3: human U2OS whole cell lysate, Lane 4: human PC-3 whole cell lysate, Lane 5: human Caco-2 whole cell lysate, Lane 6: human A549 whole cell lysate, Lane 7: human K562 whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-INPPL1 antigen affinity purified polyclonal antibody at 0.5 ug/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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for INPPL1 at approximately 140-160KD. The expected band size for INPPL1 is at 138KD.

ADDITIONAL INFORMATION

Related Product Information for anti-INPPL1 antibody	Description: Rabbit IgG polyclonal antibody for INPPL1 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat. Background: SH2-domain containing Phosphatidylinositol-3, 4, 5-trisphosphate 5-phosphatase 2 is an enzyme that in humans is encoded by the INPPL1 gene. The protein encoded by this gene is an SH2-containing 5'-inositol phosphatase that is involved in the regulation of insulin function. The encoded protein also plays a role in the regulation of epidermal growth factor receptor turnover and actin remodelling. Additionally, this gene supports metastatic growth in breast cancer and is a valuable biomarker for breast cancer.
References	1. Habib, T., Hejna, J. A., Moses, R. E., Decker, S. J. Growth factors and insulin stimulate tyrosine phosphorylation of the 51C/SHIP2 protein. J. Biol. Chem. 273: 18605-18609, 1998. 2. Sleeman, M. W., Wortley, K. E., Lai, K.-M. V., Gowen, L. C., Kintner, J., Kline, W. O., Garcia, K., Stitt, T. N., Yancopoulos, G. D., Wiegand, S. J., Glass, D. J. Absence of the lipid phosphatase SHIP2 confers resistance to dietary obesity. Nature Med. 11: 199-205, 2005. 3. Yu, J., Ryan, D. G., Getsios, S., Oliveira-Fernandes, M., Fatima, A., Lavker, R. M. MicroRNA-184 antagonizes microRNA-205 to maintain SHIP2 levels in epithelia. Proc. Nat. Acad. Sci. 105: 19300-19305, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	222136583
NCBI GeneID	3636
NCBI Accession #	NP_001558.3
NCBI GenBank Nucleotide #	NM_001567.4

UniProt Accession #	O15357 ; Q13577 ; Q13578 ; B2RTX5
Molecular Weight	113,176 Da
NCBI Official Full Name	phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2
NCBI Official Synonym Full Names	inositol polyphosphate phosphatase like 1
NCBI Official Symbol	INPPL1
NCBI Official Synonym Symbols	OPSMD; SHIP2
NCBI Protein Information	phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2
UniProt Protein Name	Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2
UniProt Gene Name	INPPL1
UniProt Synonym Gene Names	SHIP2; INPPL-1; SH2 domain-containing inositol phosphatase 2; SHIP-2

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/inppl1-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/124934>