

Rabbit SHIP-2 Polyclonal Antibody | anti-SHIP-2 antibody

SHIP-2 Polyclonal Antibody

CATALOG # AAA296173	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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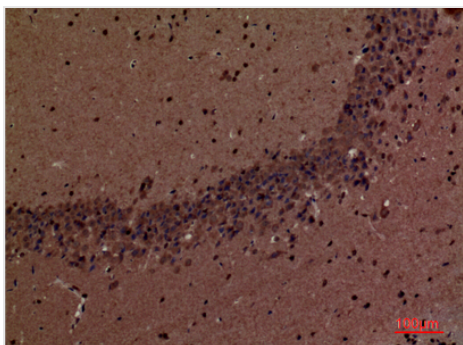
PRODUCT SYNONYMS

SHIP-2; Polyclonal Antibody; SHIP-2 Polyclonal Antibody; INPPL1; SHIP2; 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; anti-SHIP-2 antibody

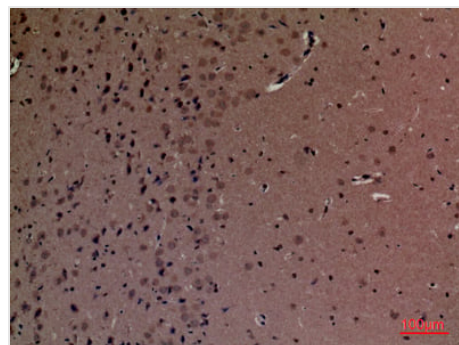
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Applicable Applications for anti-SHIP-2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

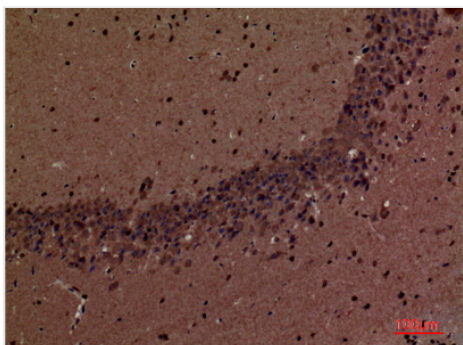
IMAGES


IHC (Immunohistochemistry)

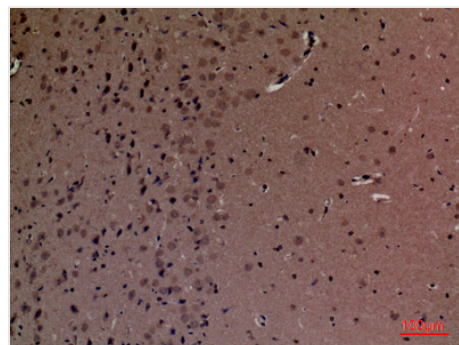
Dilution: Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications.


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Dilution: Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications.


WB (Western Blot)

Dilution: Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications.

ADDITIONAL INFORMATION

Related Product Information for anti-SHIP-2 antibody	Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol- 3, 4, 5-trisphosphate (PtdIns (3, 4, 5)P3) to produce PtdIns (3, 4)P2, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways. Plays a central role in regulation of PI3K-dependent insulin signaling, although the precise molecular mechanisms and signaling pathways remain unclear. While overexpression reduces both insulin-stimulated MAP kinase and Akt activation, its absence does not affect insulin signaling or GLUT4 trafficking. Confers resistance to dietary obesity. May act by regulating AKT2, but not AKT1, phosphorylation at the plasma membrane. Part of a signaling pathway that regulates actin cytoskeleton remodeling. Required for the maintenance and dynamic remodeling of actin structures as well as in endocytosis, having a major impact on ligand-induced EGFR internalization and degradation. Participates in regulation of cortical and submembraneous actin by hydrolyzing PtdIns (3, 4, 5)P3 thereby regulating membrane ruffling (PubMed:21624956). Regulates cell adhesion and cell spreading. Required for HGF-mediated lamellipodium formation, cell scattering and spreading. Acts as a negative regulator of EPHA2 receptor endocytosis by inhibiting via PI3K-dependent Rac1 activation. Acts as a regulator of neuritogenesis by regulating PtdIns (3, 4, 5)P3 level and is required to form an initial protrusive pattern, and later, maintain proper neurite outgrowth. Acts as a negative regulator of the FC-gamma- RIIA receptor (FCGR2A). Mediates signaling from the FC-gamma-RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Involved in EGF signaling pathway. Upon stimulation by EGF, it is recruited by EGFR and dephosphorylates PtdIns (3, 4, 5)P3. Plays a negative role in regulating the PI3K-PKB pathway, possibly by inhibiting PKB activity. Down-regulates Fc-gamma-R-mediated phagocytosis in macrophages independently of INPP5D/SHIP1. In macrophages, down-regulates NF-kappa-B-dependent gene transcription by regulating macrophage colony-stimulating factor (M-CSF)-induced signaling. May also hydrolyze PtdIns (1, 3, 4, 5)P4, and could thus affect the levels of the higher inositol polyphosphates like InsP6. Involved in endochondral ossification.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	269849650
NCBI GeneID	3636
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; SHIP-2; INPPL-1; 51C protein; protein 51C; SH2 domain-containing inositol 5'-phosphatase 2; SH2 domain-containing inositol-5'-phosphatase 2; 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
UniProt Entry Name	SHIP2_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.