

**Product Name: SHIP (11I8) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe17862**



## Summary

<b>Production Name</b>	SHIP (11I8) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC-P,ICC/IF,FC,IP,IF-P
<b>Reactivity</b>	Human,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	INPP5D
<b>Alternative Names</b>	Inositol polyphosphate-5-phosphatase of 145 kDa; inositol polyphosphate-5-phosphatase, 145kDa; INPP5D; p150Ship;
<b>Gene ID</b>	3635.0
<b>SwissProt ID</b>	Q92835.

## Application

<b>Dilution Ratio</b>	WB 1:1000, IHC-P/IF-P 1:100-1:500, ICC/IF 1:100, FCM 1:20-1:50, IP 1:20-1:50
<b>Molecular Weight</b>	133kDa

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## Background

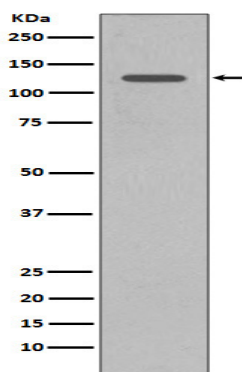
SHIP an SH2-containing inositol phosphatase. A hemopoietic-specific phosphatase that regulates cell survival, growth, cell cycle arrest and apoptosis. Hydrolyzes Ins(1,3,4,5)P<sub>4</sub> and PtdIns(3,4,5)P<sub>3</sub>. A cytosolic protein with a SH2 domain in its N-terminus and two NPXY Shc binding motifs at its C-terminus. Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P<sub>3</sub>) to produce PtdIns(3,4)P<sub>2</sub>, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways (PubMed:<a href="http://www.uniprot.org/citations/8723348" target="\_blank">8723348</a>, PubMed:<a href="http://www.uniprot.org/citations/10764818" target="\_blank">10764818</a>, PubMed:<a href="http://www.uniprot.org/citations/8769125" target="\_blank">8769125</a>). Able also to hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P<sub>3</sub>) and inositol 1,3,4,5-tetrakisphosphate (PubMed:<a href="http://www.uniprot.org/citations/9108392" target="\_blank">9108392</a>, PubMed:<a href="http://www.uniprot.org/citations/10764818" target="\_blank">10764818</a>, PubMed:<a href="http://www.uniprot.org/citations/8769125" target="\_blank">8769125</a>). Acts as a negative regulator of B- cell antigen receptor signaling. Mediates signaling from the FC-gamma- RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Acts as a negative regulator of myeloid cell proliferation/survival and chemotaxis, mast cell degranulation, immune cells homeostasis, integrin alpha-IIb/beta-3 signaling in platelets and JNK signaling in B-cells. Regulates proliferation of osteoclast precursors, macrophage programming, phagocytosis and activation and is required for endotoxin tolerance. Involved in the control of cell-cell junctions, CD32a signaling in neutrophils and modulation of EGF-induced phospholipase C activity (PubMed:<a href="http://www.uniprot.org/citations/16682172" target="\_blank">16682172</a>). Key regulator of neutrophil migration, by governing the formation of the leading edge and polarization required for chemotaxis. Modulates FCGR3/CD16-mediated cytotoxicity in NK cells. Mediates the activin/TGF-beta-induced apoptosis through its Smad-dependent expression.

## Research Area

## Image Data

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Western blot analysis of SHIP1 expression in Daudi cell lysate.

### **Note**

For research use only.