

## SHIP Antibody

Catalog No: #33484

Package Size: #33484-1 50ul #33484-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

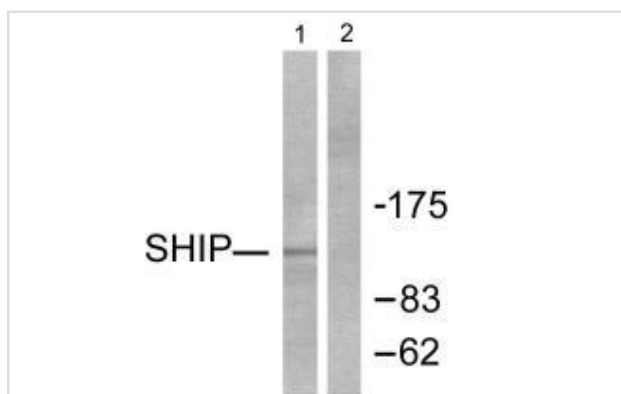
## Description

Product Name	SHIP Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total SHIP protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from human SHIP.
Target Name	SHIP
Other Names	INPP5D; SH2-containing inositol 5-phosphatase;
Accession No.	Swiss-Prot: Q92835NCBI Gene ID: 3635
SDS-PAGE MW	133kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:500~1:3000

## Images



Western blot analysis of extracts from Jurkat cells, treated with PMA (1ng/ml, 15mins), using SHIP antibody #33484.

## Background

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. Acts as a negative regulator of B-cell antigen receptor signaling. Mediates signaling from the FC-gamma-R1B 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. 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. May also hydrolyze PtdIns(1,3,4,5)P<sub>4</sub>, and could thus affect the levels of the higher inositol polyphosphates like InsP<sub>6</sub>.

Chuanlei Wang, Journal of Environmental & Engineering Geophysics, Jun 2006; 11: 123 - 131.

Marielle Christiansen, Transportation Science, Feb 2004; 38: 1 - 18.

Paul Weimer, AAPG Bulletin, May 1998; 82: 878 - 917.

Lewis E. Hunter, Geological Society, Lo

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.