ARG63092
anti-SHIP1 antibody [SHIP-01]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SHIP-01] recognizes SHIP1
Tested Reactivity	Hu
Tested Application	FACS, WB
Specificity	The clone SHIP-01 reacts with SHIP-1, a phosphoinositide phosphatase largely confined to hematopoietic cells. Multiple forms of SHIP-1 have been reported with molecular weights of 110, 125, 130, 135 and 145 kDa.
Host	Mouse
Clonality	Monoclonal
Clone	SHIP-01
Isotype	IgG2a
Target Name	SHIP1
Species	Human
Immunogen	Peptide coresponding to a sequence within N-terminal domain of Human SHIP-1.
Conjugation	Un-conjugated
Alternate Names	EC 3.1.3.86; Inositol polyphosphate-5-phosphatase of 145 kDa; hp51CN; p150Ship; SHIP1; SIP-145; SHIP-1; SH2 domain-containing inositol 5'-phosphatase 1; SH2 domain-containing inositol phosphatase 1; Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1; SHIP

Application Instructions

Application table

Application	Dilution
FACS	2 - 5 µg/ml
WB	Assay-dependent

Application Note: WB: Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with reducing Laemmli SDS-PAGE sample buffer. Boil for 6 min. Application note: Reducing condition.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: FACS: Human blood leukocytes
WB: Ramos

Properties

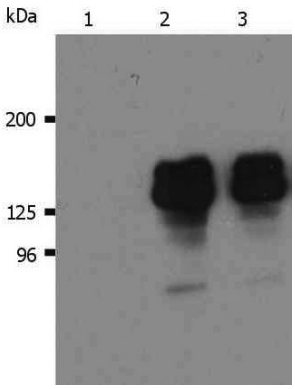
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.

Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 3635 Human Swiss-port # Q92835 Human
Gene Symbol	INPP5D
Gene Full Name	inositol polyphosphate-5-phosphatase, 145kDa
Background	SHIP-1 (SH2 domain containing inositol phosphatase-1) is a 5´inositol phosphatase that regulates cell responses in lymphocytes and myeloid cells by hydrolyzing the second messenger PI(3,4,5) trisphosphate. SHIP-1 is recruited upon engagement of both inhibitory and activatory receptors, such as FcgammaRIIB, Fcgamma RIII, FcepsilonRI or cytokine and growth factor receptors, and supresses PI3K-dependent signaling, down-regulates cell migration and invasion of transformed cells and phagocytosis. SHIP-1 also serves as a scaffold for the recruitment of other proteins to the plasma membrane.
Function	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. 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. 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)P4, and could thus affect the levels of the higher inositol polyphosphates like InsP6. [UniProt]
Research Area	Immune System antibody; Signaling Transduction antibody
Calculated Mw	133 kDa
PTM	Tyrosine phosphorylated by the members of the SRC family after exposure to a diverse array of extracellular stimuli such as cytokines, growth factors, antibodies, chemokines, integrin ligands and hypertonic and oxidative stress. Phosphorylated upon IgG receptor FCGR2B-binding.

Images



ARG63092 anti-SHIP1 antibody [SHIP-01] WB image

Western blot: THP-1 cell lysate stained with 1) Isotype Mouse IgG1 control antibody, or both 2) and 3) ARG63092 anti-SHIP1 antibody [SHIP-01].