

Product datasheet for **AM03031PU-N**

SHIP (INPP5D) Mouse Monoclonal Antibody [Clone ID: SHIP-02]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SHIP-02
Applications:	ELISA, WB
Recommended Dilution:	<u>Western Blotting</u> (Reducing conditions) Positive control: RAMOS human cell line. 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. <u>ELISA.</u>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Peptide corresponding to a sequence within N-terminal domain of Human SHIP-1.
Specificity:	The antibody SHIP-02 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.
Formulation:	PBS, pH 7.4 with 15 mM sodium azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	lot specific
Purification:	Protein A affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	inositol polyphosphate-5-phosphatase D



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Database Link: [Entrez Gene 3635 Human Q92835](#)

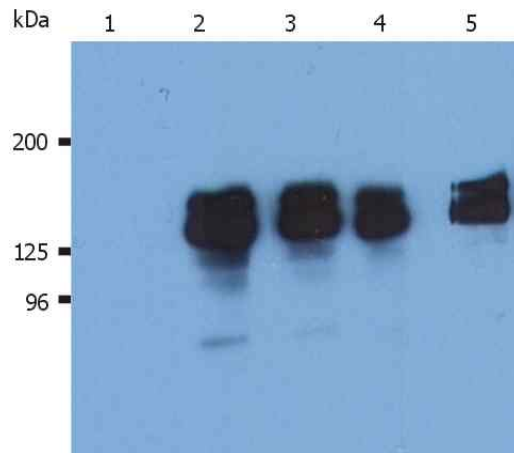
Background: SHIP-1 (SH2 domain containing inositol phosphatase-1) is a 5' inositol phosphatase that regulates cell responses in lymphocytes and myeloid cells by hydrolyzing the second messenger PI(3,4,5) trisphosphate. SHIP-1 is recruited upon engagement of both inhibitory and activatory receptors, such as FcγRIIB, FcγRIII, FcεRI or cytokine and growth factor receptors, and suppresses 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.

Synonyms: SHIP, SHIP1, SHIP-1, p150Ship, SIP-145

Protein Families: Druggable Genome

Protein Pathways: B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Insulin signaling pathway, Phosphatidylinositol signaling system

Product images:



Western Blotting analysis (reducing conditions) of human SHIP-1 in whole cell lysate of THP-1 human acute monocytic leukemia cell line. Lane 1: immunostaining with Isotype mouse IgG1 control (PPV-04) Lane 2, 3: immunostaining with anti-human SHIP-1 (SHIP-01) Lane 4, 5: immunostaining with anti-human SHIP-1 (SHIP-02)