TECHNICAL DATA SHEET

CyFlow™ SHIP-1 Purified
Anti-Hu; Clone SHIP-02

REF **AB475048**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	SHIP-1
Alternative Names	—
Clone	SHIP-02
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Peptide coresponding to a sequence within N-terminal domain of Human SHIP-1

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Specificity

The mouse monoclonal antibody SHIP-02 recognizes SHIP-1 antigen, 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.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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 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.

References

- Ai J, Maturu A, Johnson W, Wang Y, Marsh CB, Tridandapani S: The inositol phosphatase SHIP-2 down-regulates FcgammaR-mediated phagocytosis in murine macrophages independently of SHIP-1. Blood. 2006 Jan 15; 107(2):813-20. < PMID: 16179375 >
- Xing W, Hamaguchi M: Effects of SHIP-1 on MMP2 secretion and invasion of SR3Y1 cells. J Genet Genomics. 2007 Apr; 34(4):285-93. < PMID: 17498626 >

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- Harris SJ, Parry RV, Westwick J, Ward SG: Phosphoinositide lipid phosphatases: natural regulators of phosphoinositide 3-kinase signaling in T lymphocytes. J Biol Chem. 2008 Feb 1; 283(5):2465-9. < PMID: 18073217 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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