Anti-SHIP2 Antibody, Polyclonal

Antibodies

Rabbit polyclonal antibody against human, mouse SHIP2, unconjugated

Catalog #60143 100 µL 1 mg/mL

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Product Description

SHIP2 is a 145 kDa SHIP-related protein expressed in both hematopoietic and nonhematopoietic cells. Like SH2-containing inositol phosphatase (SHIP), SHIP2 becomes tyrosine phosphorylated and associated with the adaptor protein, Shc, following cytokine, growth factor, chemokine, and immunoreceptor stimulation. SHIP2 also hydrolyzes the critical phosphatidylinositol (PI)-3-kinase (PI3K)-generated second messenger, PI-3,4,5-P3 (PIP3), to PI-3,4-P2 1,2 and therefore acts as an important negative regulator of the PI3K pathway. This antibody reacts with mouse and human full-length 145 kDa SHIP2 protein.

Target Antigen Name:	SHIP2
Alternative Names:	Inositol polyphosphate phosphatase like 1, INPPL1, OPSMD
Gene ID:	3636 (human), 16332 (mouse)
Species Reactivity:	Human, Mouse
Host Species:	Rabbit
Clonality:	Polyclonal
Clone:	Not applicable
Isotype:	Not applicable
Immunogen:	18-amino acid peptide corresponding to the C-terminus of human SHIP2
Conjugate:	Unconjugated

Applications

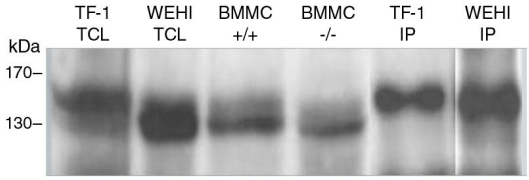
Verified:	WB
Reported:	IP, WB

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.4, containing 0.01% bovine serum albumin, 0.05% sodium azide, and 50% glycerol
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at -20°C when stored undiluted. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	The suggested use of this antibody is: IP, 4 µL in 500 µL of cell lysate from 1 x 10^6 cells; WB, 1:1000 dilution. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Western blot analysis of total cell lysates (TCL) from human TF-1 cells, mouse WEHI-231 B cells, and mouse bone marrow-derived mast cells (BMMCs) of SHIP +/+ and SHIP -/- mice with Anti-SHIP2 Antibody, Polyclonal (1:1000 dilution). The last two lanes represent anti-SHIP2 immunoprecipitates (IP) of 1 x 10^7 TF-1 cells and WEHI-231 B cells, respectively. SHIP2 has a predicted molecular mass of 145 kDa.

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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5. Maresco DL et al. (1999) The SH2-containing 5'-inositol phosphatase (SHIP) is tyrosine phosphorylated after Fc gamma receptor clustering in monocytes. J Immunol 162(11): 6458–65.
6. Liu L et al. (1997) SHIP, a new player in cytokine-induced signalling. Leukemia 11(2): 181–4.
7. Damen JE et al. (1996) The 145-kDa protein induced to associate with Shc by multiple cytokines is an inositol tetraphosphate and phosphatidylinositol 3,4,5-triphosphate 5-phosphatase. Proc Natl Acad Sci USA 93(4): 1689–93.

Please refer to the Safety Data Sheet (SDS) for hazard information.