Anti-SHIP (C-Terminus) Antibody, Polyclonal

Antibodies

Rabbit polyclonal antibody against human, mouse SHIP, unconjugated

Catalog #60144

100 µL

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Product Description

SHIP (C-terminus) is critical for the function of SHIP protein. SH2-containing inositol phosphatase (SHIP) is a 145 kDa hematopoietic-restricted protein that becomes tyrosine-phosphorylated and associated with the adaptor protein, Shc, following cytokine, growth factor, chemokine, and immunoreceptor stimulation. SHIP 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 SHIP protein.

Target Antigen Name:	SHIP
Alternative Names:	p150Ship; phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1; SHIP-1; SHIP1; SIP-145; s-SHIP
Gene ID:	3635 (human), 16331 (mouse)
Species Reactivity:	Human, Mouse
Host Species:	Rabbit
Clonality:	Polyclonal
Clone:	Not applicable
Isotype:	Not applicable
Immunogen:	22-Amino acid peptide corresponding to the C-terminus of human SHIP
Conjugate:	Unconjugated

Applications

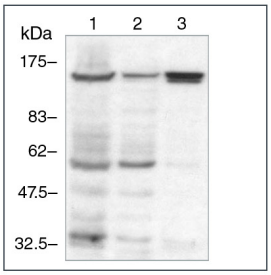
Verified:	WB
Reported:	WB

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:	For western blot analysis the suggested use of this antibody is a 1 in 1000 dilution. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Western blot analysis of total cell lysates from human TF-1 cells (lane 1), mouse WEHI-231 cells (lane 2) and mouse bone marrow-derived mast cells (BMMCs; lane 3) with Anti-SHIP (C-Terminus) Antibody, Polyclonal (1 in 1000 dilution). SHIP 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

1. Sly LM et al. (2003) SHIP, SHIP2, and PTEN activities are regulated in vivo by modulation of their protein levels: SHIP is up-regulated in macrophages and mast cells by lipopolysaccharide. Exp Hematol 31(12): 1170–81.
2. Huber M et al. (1999) The role of SHIP in growth factor induced signalling. Prog Biophys Mol Biol 71(3-4): 423–34.
3. 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.
4. Liu L et al. (1997) SHIP, a new player in cytokine-induced signalling. Leukemia 11(2): 181–4.
5. 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.