

Anti-Phospho-SHIP Antibody, Polyclonal

Antibodies

Rabbit polyclonal antibody against
human, mouse phosphoSHIP,
unconjugated



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Catalog #60142

100 μ L 1 mg/mL

Product Description

Phospho-SHIP is a highly phosphorylated form of SHIP. 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 tyrosine-phosphorylated SHIP.

Target Antigen Name:	PhosphoSHIP
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:	Phosphopeptide comprising residues surrounding the phosphorylated tyrosine (Y1020) of human SHIP
Conjugate:	Unconjugated

Applications

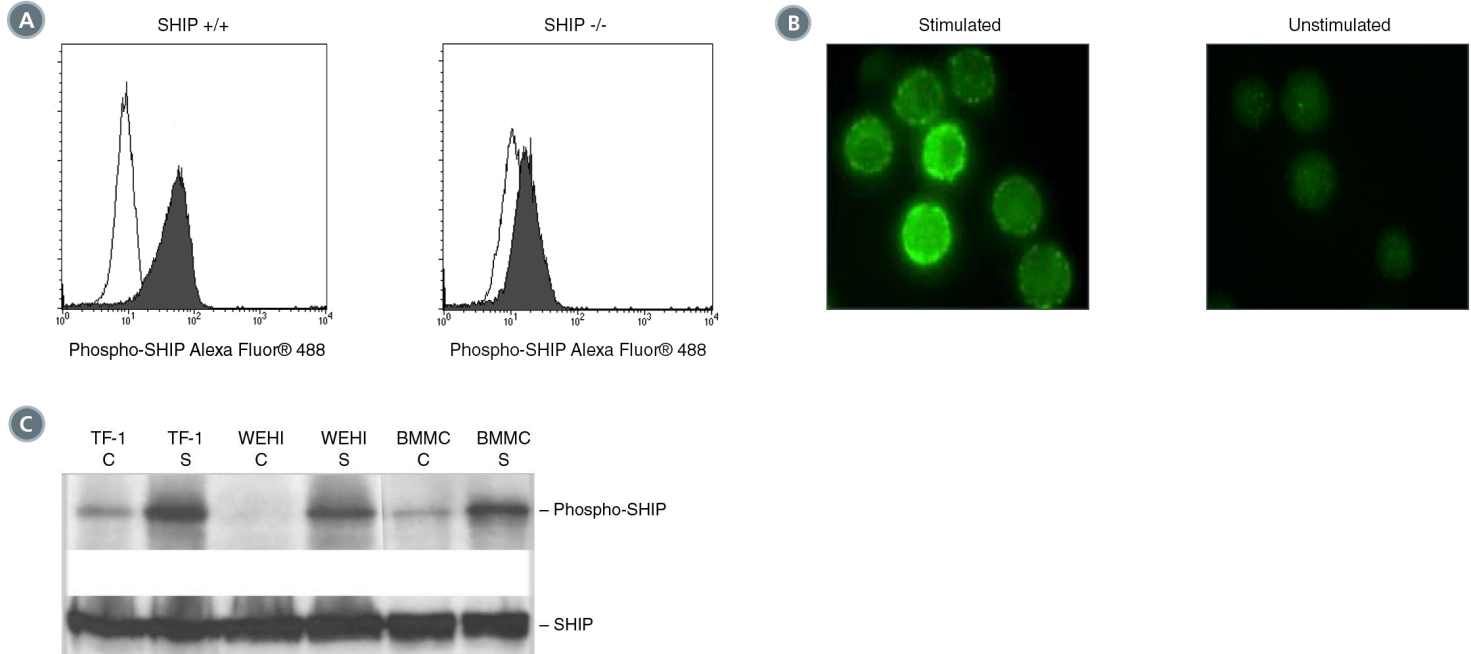
Verified:	FC, IF, WB
Reported:	FC, ICC, IF, IP, WB

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: FC, IF, 1 in 100 to 1 in 1000 dilution; IP, 5 μ L in 500 μ L of cell lysate from 1×10^6 cells; WB, 1 in 2500 to 1 in 5000 dilution. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Flow cytometry analysis of bone marrow-derived mast cells (BMMCs) from normal ($+/+$) or SHIP knockout ($-/-$) mice. Cells were stimulated with stem cell factor (SCF; filled histogram) or left unstimulated (solid line histogram), and then fixed, permeabilized, and labeled with Anti-Phospho-SHIP Antibody, Polyclonal, followed by an anti-rabbit Alexa Fluor® 488.

(B) BMMCs were either stimulated with SCF or left unstimulated, and then fixed, permeabilized, and labeled with Anti-Phospho-SHIP Antibody, Polyclonal, followed by an anti-rabbit Alexa Fluor® 488.

(C) Western blot analysis of total cell lysates from human TF-1 cells stimulated with IL-3, mouse WEHI-231 B cells stimulated with anti-IgM, and mouse BMMCs stimulated with SCF, and probed with Anti-Phospho-SHIP Antibody, Polyclonal. The blot was re-probed with an anti-SHIP antibody to show equal loading of unstimulated (C) and stimulated (S) samples. Phospho-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

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

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