Antibodies

Rabbit polyclonal antibody against human, mouse phosphoSHIP, unconjugated

Catalog #60142

100 μL 1 mg/mL

Product Description

Phospho-SHIP is 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: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1; p150Ship; SHIP1; SHIP-1; s-SHIP; SIP-145
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

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: IF, 1:100 - 1:1000 dilution; IP, 5 μL in 500 μL of cell lysate from 1 x 10^6 cells; WB, 1:2500 - 1:5000 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