

Phospho-SHIP1 (Tyr1020) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 145	Source: Rabbit	UniProt ID: #Q92835	Entrez-Gene Id: 3635	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Phospho-SHIP1 (Tyr1021) Antibody detects endogenous levels of SHIP1 only when phosphorylated at tyrosine 1020 of mouse SHIP1 (or Tyr1021 of human SHIP1).					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Tyr1020 of mouse SHIP. Antibodies are purified by protein A and peptide affinity chromatography.					
SH2-containing inositol phosphatase 1 (SHIP1) is a hematopoietic phosphatase that hydrolyze phosphatidylinositol-3,4,5-triphosphate to phosphatidylinositol-3,4-bisphosphate (1). SHIP1 is phosphatase with an SH2 domain in its amino terminus and two NPXY Shc binding motifs in it terminus (1,2). Upon receptor cross-linking, SHIP is first recruited to the membrane junction the binding of its SH2 domain to the phospho-tyrosine in the ITIM motif (2), followed by tyrosine phosphorylation on the NPXY motif (2). The membrane relocalization and phosphorylation on motif is essential for the regulatory function of SHIP1 (3-5). Its effect on calcium flux, cell survicell cycle arrest, and apoptosis is mediated through the PI3K and Akt pathways (3-5). Tyr1021 one of the NPXY motifs in SHIP1, and its phosphorylation is important for SHIP1 function (6).					HIP1 is a cytosolic otifs in its carboxy netion through osine ation on the NPXY ell survival, growth, Tyr1021 is located in		
Background Refere	2. L 3. M 4. C 5. S	 Tridandapani, S. et al. (1997) Mol Cell Biol 17, 4305-11. Liu, L. et al. (1997) J Biol Chem 272, 8983-8. Malbec, O. et al. (2001) J Biol Chem 276, 30381-91. Carver, D.J. et al. (2000) Blood 96, 1449-56. Scharenberg, A.M. et al. (1998) EMBO J 17, 1961-72. Sattler, M. et al. (2001) J Biol Chem 276, 2451-8. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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