

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit	UniProt ID: #Q92835	Entrez-Gene Id: 3635
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SHIP1 (P290) Antibody detects endogenous levels of total SHIP1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro290 of human SHIP1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		SH2-containing inositol phosphatase 1 (SHIP1) is a hematopoietic phosphatase that hydrolyzes phosphatidylinositol-3,4,5-triphosphate to phosphatidylinositol-3,4-bisphosphate (1). SHIP1 is a cytosolic phosphatase with an SH2 domain in its amino terminus and two NPXY Shc binding motifs in its carboxy terminus (1,2). Upon receptor cross-linking, SHIP is first recruited to the membrane junction through 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 the NPXY motif is essential for the regulatory function of SHIP1 (3-5). Its effect on calcium flux, cell survival, growth, cell cycle arrest, and apoptosis is mediated through the PI3K and Akt pathways (3-5). Tyr1022 is located in one of the NPXY motifs in SHIP1, and its phosphorylation is important for SHIP1 function (6).				
Background Re	eferences	1. Tridandapani, S. et a 2. Liu, L. et al. (1997) <i>J E</i> 3. Malbec, O. et al. (200 4. Carver, D.J. et al. (200 5. Scharenberg, A.M. et 6. Sattler, M. et al. (200	Biol Chem 272, 898 11) J Biol Chem 276 10) Blood 96, 1449- t al. (1998) EMBO J	3-8. , 30381-91. 56. 17, 1961-72.		
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks ar more information.	re the property of	heir respective owners.	Visit cellsignal.com	/trademarks for
Limited Uses		the following terms ap terms and conditions t	ply to Products pro hat are in addition	a writing signed by a leg ovided by CST, its affiliate to, or different from, th y authorized representa	es or its distributors ose contained here	s. Any Customer's in, unless
		approved, cleared, or li	censed by the FDA	se Only or a similar labe or other regulatory for duct for any diagnostic o	eign or domestic er	itity, for any

any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products on services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.