SHIP1 (C40G9) Rabbit mAb		Cell Signaling TECHNOLOGY®	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#272 ⁻	Web: 3 Trask Lane Danvers Mass	info@cellsignal.com cellsignal.com achusetts 01923 USA	

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

Applications:ReactivityN, IP, IF-IC, FC-FPH	/: Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit IgG	UniProt ID: #Q92835	Entrez-Gene Id 3635		
Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescenc Flow Cytometry (Fixe	e (Immunocytochen	iistry)		Dilution 1:1000 1:50 1:400 1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For a carrier free (BS	A and azide free) ve	sion of this product see	product #44560.			
Specificity/Sensitivity	SHIP1 (C40G9) Rabbi	SHIP1 (C40G9) Rabbit mAb detects the endogenous levels of total SHIP1 protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Trp942 of human SHIP1.						
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 References	1. Tridandapani, S. et al. (1997) <i>Mol Cell Biol</i> 17, 4305-11. 2. Liu, L. et al. (1997) <i>J Biol Chem</i> 272, 8983-8. 3. Malbec, O. et al. (2001) <i>J Biol Chem</i> 276, 30381-91. 4. Carver, D.J. et al. (2000) <i>Blood</i> 96, 1449-56. 5. Scharenberg, A.M. et al. (1998) <i>EMBO J</i> 17, 1961-72. 6. Sattler, M. et al. (2001) <i>J Biol Chem</i> 276, 2451-8.						
Species Reactivity	Species reactivity is c	determined by testin	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity Key	H: Human						
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
	U.S. Patent No. 7,429	U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.					
	All other trademarks more information.	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.					
Limited Uses	the following terms a terms and conditions	apply to Products pr s that are in additior	a writing signed by a leg ovided by CST, its affiliat to, or different from, th y authorized representa	es or its distributor ose contained here	s. Any Customer's in, unless		

Pavision 7

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in 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 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 or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use 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.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.