#2725 Store at -20C

SHIP1 (C15C9) Rabbit mAb



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Applications: WB, IP, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit IgG	UniProt ID: #Q92835	Entrez-Gene Id: 3635
Product Usage Information	Ap	Application			Dilution	
	We	estern Blotting				1:1000
	Im	munoprecipitation				1:50
	Flo	ow Cytometry (Fixed	//Permeabilized)			1:200
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		SHIP1 (C15C9) Rabbit mAb detects endogenous levels of total SHIP1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1135 of human SHIP1.				
Background	pho pho tern bino pho mot cell	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). Tyr1021 is located in one of the NPXY motifs in SHIP1, and its phosphorylation is important for SHIP1 function (6).				
Background Ref	2. L 3. N 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 IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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