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## SHIP1 (P290) Antibody



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 145	Source: Rabbit	UniProt ID: #Q92835	Entrez-Gene Id 3635	
Product Usage Information	Application			Dilution			
	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	ity SHI	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 th phosphatidylinositol-3,4,5-triphosphate to phosphatidylinositol-3,4-bisphosphate (1 phosphatase with an SH2 domain in its amino terminus and two NPXY Shc binding terminus (1,2). Upon receptor cross-linking, SHIP is first recruited to the membrane binding of its SH2 domain to the phospho-tyrosine in the ITIM motif (2), followed by phosphorylation on the NPXY motif (2). The membrane relocalization and phosphomotif is essential for the regulatory function of SHIP1 (3-5). Its effect on calcium flucell cycle arrest, and apoptosis is mediated through the PI3K and Akt pathways (3-one of the NPXY motifs in SHIP1, and its phosphorylation is important for SHIP1 for					HIP1 is a cytosolic otifs in its carboxy nction through osine ation on the NPXY ell survival, growth, Tyr1021 is located in	
Background Referen		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) J Biol Chem 276, 30381-91.

4. Carver, D.J. et al. (2000) Blood 96, 1449-56.

5. Scharenberg, A.M. et al. (1998) *EMBO J* 17, 1961-72.

6. Sattler, M. et al. (2001) J Biol Chem 276, 2451-8.

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** WB: Western Blotting IP: Immunoprecipitation

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

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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