e at -20C	Phospho-SHP-2 (Tyr580) Antibody		ECHNOLOGY®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
)3		Support:	877-678-TECH (8324)
#3703		Web:	info@cellsignal.com cellsignal.com
#		3 Trask Lane Danvers	Massachusetts 01923 USA

For Research Use Only	Not for Use	in Diagnostic I	Procedures
FOI INESCAICH USE OIN	. NOLIDI 030	in Diagnostic i	Toccuures.

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 72	Source: Rabbit	UniProt ID: #Q06124	Entrez-Gene Id: 5781	
Product Usage Information	Ар	plication			Dilution		
mormation	We	stern Blotting			1:1000		
	Imr	nunoprecipitation			1:50		
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 / Sensitiv		Phospho-SHP-2 (Tyr580) Antibody detects endogenous levels of SHP-2 only when phosphorylated at Tyr580.					
Source / Purificatior	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr580 of human SHP-2. Antibodies are purified by peptide affinity chromatography.					
Background	part and SHF facto EGF pho activ tyro	icipates in signaling extracellular matrice P-2 and its associatio or receptors and cyte -dependent PI3 kins sphorylated at Tyr54 vation (4). These pho sine phosphatase ac	events downstrear es in the control of on with Gab1 is crit okines (2). In additi ase activation by d 2 and Tyr580 in its osphorylation even ctivity (5). Mutation	n of receptors for gri cell growth, different ical for sustained Er ion to its role in Gab ephosphorylating Ga carboxy terminus in ts are thought to reli s in the correspondi	tein tyrosine phosphatas owth factors, cytokines, iation, migration, and de k activation downstream 1-mediated Erk activatio ab1 at p85 binding sites or response to growth fac eve basal inhibition and ng gene result in a pair of aay result from abnorma	hormones, antigens, eath (1). Activation of of several growth on, SHP-2 attenuates (3). SHP-2 becomes tor receptor stimulate SHP-2 of clinically similar	
Background Refere	2. M 3. Z 4. B 5. L	 Qu, C.K. (2000) <i>Cell Res</i> 10, 279-88. Maroun, C.R. et al. (2000) <i>Mol Cell Biol</i> 20, 8513-25. Zhang, S.Q. et al. (2002) <i>Mol Cell Biol</i> 22, 4062-72. Bennett, A.M. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 7335-9. Lu, W. et al. (2001) <i>Mol Cell</i> 8, 759-69. Edouard, T. et al. (2007) <i>Cell Mol Life Sci</i> 64, 1585-90. 					
Species Reactivity	Spec	ies reactivity is dete	rmined by testing in	n at least one appro	ved application (e.g., we	estern 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	: Immunoprecipita	tion			
Cross-Reactivity Ke	X: Xe		B: bovine Dg: dog	mster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse species expected			
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