e at -20C	SHP-2 (D50F2) Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 72	Source/Isotype: Rabbit IgG	UniProt ID: #Q06124	Entrez-Gene Id: 5781		
Product Usage	A	Application Dilution						
Information	V	Vestern Blotting			1	:1000		
	Ir	nmunoprecipitation			1	:50		
	Ir	mmunohistochemistry ((Paraffin)		1:	:50		
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		SHP-2 (D50F2) Rabbit mAb detects endogenous levels of total SHP-2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of human SHP-2.						
Background Background References		 SHP-2 (PTPN11) is a ubiquitously expressed, nonreceptor protein tyrosine phosphatase (PTP). It participates in signaling events downstream of receptors for growth factors, cytokines, hormones, antigens, and extracellular matrices in the control of cell growth, differentiation, migration, and death (1). Activation of SHP-2 and its association with Gab1 is critical for sustained Erk activation downstream of several growth factor receptors and cytokines (2). In addition to its role in Gab1-mediated Erk activation, SHP-2 attenuates EGF-dependent PI3 kinase activation by dephosphorylating Gab1 at p85 binding sites (3). SHP-2 becomes phosphorylated at Tyr542 and Tyr580 in its carboxy terminus in response to growth factor receptor activation (4). These phosphorylation events are thought to relieve basal inhibition and stimulate SHP-2 tyrosine phosphatase activity (5). Mutations in the corresponding gene result in a pair of clinically similar disorders (Noonan syndrome and LEOPARD syndrome) that may result from abnormal MAPK regulation (6). 1. Qu, C.K. (2000) <i>Cell Res</i> 10, 279-88. 2. Maroun, C.R. et al. (2000) <i>Mol Cell Biol</i> 20, 8513-25. 3. Zhang, S.Q. et al. (2002) <i>Mol Cell Biol</i> 22, 4062-72. 4. Bennett, A.M. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 7335-9. 5. Lu, W. et al. (2001) <i>Mol Cell</i> 8, 759-69. 6. Edouard, T. et al. (2007) <i>Cell Mol Life Sci</i> 64, 1585-90. 						
Species Reactivity	y Spe	ecies reactivity is deter	rmined by testing	g in at least one approve	ed 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	W	B: Western Blotting IP	: Immunoprecipi	tation IHC-P: Immunoh	stochemistry (Paraffin))		
Cross-Reactivity K	X: 2	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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