e at -20C	SHP-1 (C14H6) Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
59		Support:	877-678-TECH (8324)		
#3759		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA		

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

Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 68	Source/Isotype: Rabbit	UniProt ID: #P29350	Entrez-Gene Id: 5777		
Product Usage Information		pplication /estern Blotting			Dilution 1:1000			
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-1 (C14H6) Rabbit mAb detects endogenous level of total SHP-1 protein.						
Species predicted to react based on 100% sequence homology:		t						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro161 of human SHP-1.						
Background		SHP-1 (PTPN6) is a non-receptor protein tyrosine phosphatase that is expressed primarily in hematopoietic cells. The enzyme is composed of two SH2 domains, a tyrosine phosphatase catalytic domain, and a carboxy-terminal regulatory domain (1). SHP-1 removes phosphates from target proteins to downregulate several tyrosine kinase-regulated pathways. In hematopoietic cells, the amino-terminal SH2 domain of SHP-1 binds to tyrosine phosphorylated erythropoietin receptors (EPORs) to negatively regulate hematopoietic growth (2). Overexpression of SHP-1 in epithelial cells results in dephosphorylation of the Ros receptor tyrosine kinase and subsequent downregulation of Ros-dependent cell proliferation and transformation (3). Following ligand binding in myeloid cells, SHP-1 associates with the IL-3R β chain and downregulates various proliferation pathways, SHP-1 is considered a potential tumor suppressor and angiogenesis regulator (5,6).						
Background Refe	2. ` 3. 4. ` 5. \	Yi, T.L. et al. (1992) <i>M</i> Yi, T. et al. (1995) <i>Bloc</i> Keilhack, H. et al. (200 Yi, T. et al. (1993) <i>Mol</i> Wu, C. et al. (2003) <i>G</i> Bhattacharya, R. et al.	od 85, 87-95. 01) J Cell Biol 15 Cell Biol 13, 75 ene 306, 1-12.	52, 325-34. 77-86.				
Species Reactivity	y Spe	ecies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer			estern blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 4°C with gentle shaking, overnight.					
Applications Key	WE	3: Western Blotting						
Cross-Reactivity F	X:>		B: bovine Dg: de	Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevi es expected		v		

Trademarks and Patents

Limited Uses

SHP-1 (C14H6) Rabbit mAb (#3759) Datasheet Without Images Cell Signaling Technology

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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 purposes, or any purchase of Product for resale (alone or as a component) or other commercial 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 for the purpose of developing any products or services that would compete with CST 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.