Store at -20C	PZR Antibody	T	Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
57		Support:	877-678-TECH (8324)		
#4157		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers I	Massachusetts 01923 USA		

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

	ctivity: Sensitivity: Mk Endogenous	MW (kDa): 30-50	Source: Rabbit	UniProt ID: #O95297	Entrez-Gene Id: 9019			
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 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 / Sensitivity	PZR Antibody detects e	PZR Antibody detects endogenous levels of total PZR protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the N terminus of human PZR. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	phosphatase SHP-2 thr PZR is phosphorylated inhibits PZR phosphory PZRa, and PZRb; both important role in cell sig contacts and intracellula a cell adhesion protein	PZR (Protein zero related) is an immunoglobulin superfamily protein that specifically binds the tyrosine phosphatase SHP-2 through its intracellular immunoreceptor tyrosine-based inhibitory motifs (ITIMs) (1,2). PZR is phosphorylated by c-Src, c-Fyn, c-Lyn, Csk, and c-Abl (3). PP1, a Src family kinase inhibitor, inhibits PZR phosphorylation (4,5). There are three alternatively spliced isoforms, designated as PZR, PZRa, and PZRb; both PZRa and PZRb lack ITIMs (6,7). PZR is the main receptor of ConA and has an important role in cell signaling via c-Src (4). PZR is expressed in many cell types and is localized to cell contacts and intracellular granules in BAECs and mesothelioma (REN) cells. PZR has been implicated as a cell adhesion protein that may be involved in SHP-2-dependent signaling at interendothelial cell contacts (3). Hypertyrosine phosphorylation of PZR was observed during embryogenesis in a mouse model of Noonan syndrome (8).						
Background Reference	 Zhao, Z.J. and Zhao, R. (1998) J Biol Chem 273, 29367-72. Zhao, R. and Zhao, Z.J. (2000) J Biol Chem 275, 5453-9. Kusano, K. et al. Endothelium 15, 127-36. Zhao, R. et al. (2002) J Biol Chem 277, 7882-8. Zhao, R. et al. (2003) J Biol Chem 278, 42893-8. Zannettino, A.C. et al. (2003) Biochem J 370, 537-49. Zhao, R. and Zhao, Z.J. (2003) Biochem Biophys Res Commun 303, 1028-33. Eminaga, S. and Bennett, A.M. (2008) J Biol Chem 283, 15328-38. 							
Species Reactivity	Species reactivity is dete	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							
Cross-Reactivity Key	X: Xenopus Z: zebrafish	 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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PZR Antibody (#4157) Datasheet Without Images Cell Signaling Technology

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