PZR Antibody



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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 30-50	Source/Isotype: 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 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		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 References		 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 determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

Cross-Reactivity Key

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: Western Blotting IP: Immunoprecipitation

H: Human Mk: Monkey

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