Spry1 Antibody Image: Constant of the constant o

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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit	UniProt ID: #O43609	Entrez-Gene Id: 10252
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
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		Spry1 Antibody recognizes endogenous levels of total Spry1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro144 of human Spry1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background Background References		 Spry1 is a member of the Sprouty (Spry) family proteins that was initially identified in <i>Drosophila</i> as an inhibitor of the FGF signaling pathway (1). There are four human Spry proteins (Spry1-4), encoded by different genes, and they all share a highly conserved carboxy-terminal cystine-rich Spry domain that is known to be essential for their receptor tyrosine kinase inhibitory function stimulated by various growth factors (1-3). Spry1 and other Spry proteins play a key role in embryonic development, tissue and organ formation, as well as growth in almost all living organisms (1-4). Spry proteins are considered tumor suppressors due to their inhibitory function in a variety of growth factor signaling pathways (2,3). Spry1 anchors itself to the membrane by palmitoylation and can translocate from the cytosol to the membrane by binding to caveolin-1 (5,6). Regulation of Spry1 protein function is thought to occur at various levels. Spry1 regulation includes transcriptional regulation by growth factors and kinases (1,4,7), post-transcriptional regulation by microRNA-21 (8), post-translational modifications including phosphorylation, dephosphorylation, ubiquitination and proteasomal degradation, and regulation by its interacting protein partners (2,3). 1. Hacohen, N. et al. (1998) <i>Cell</i> 92, 253-63. 2. Edwin, F. et al. (2009) <i>Mol Pharmacol</i> 76, 679-91. 3. Guy, G.R. et al. (2009) <i>J Endocrinol</i> 203, 191-202. 4. Minowada, G. et al. (1999) <i>Development</i> 126, 4465-75. 5. Impagnatiello, M.A. et al. (2001) <i>J Cell Biol</i> 152, 1087-98. 6. Hanafusa, H. et al. (2001) <i>Biochem Biophys Res Commun</i> 285, 1084-8. 8. Thum, T. et al. (2008) <i>Nature</i> 456, 980-4. 				
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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