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877-678-TECH (8324)

info@cellsignal.com cellsignal.com

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W, IP	HMR	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit IgG	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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Spry1 (D9V6P) Rabbit mAb recognizes endogenous levels of total Spry1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg70 of human Spry1 protein.				
Background		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).				
Background References		1. Hacohen, N. et al. (2. Edwin, F. et al. (2009 3. Guy, G.R. et al. (2000 4. Minowada, G. et al. 5. Impagnatiello, M.A. 6. Hanafusa, H. et al. (7. Ozaki, K. et al. (2001 8. Thum, T. et al. (2008	9) <i>Mol Pharmacol</i> 7 9) <i>J Endocrinol</i> 203, (1999) <i>Developme</i> , et al. (2001) <i>J Cell</i> 2002) <i>Nat Cell Biol</i> 1) <i>Biochem Biophy</i> .	6, 679-91. 191-202. nt 126, 4465-75. Biol 152, 1087-98. 4, 850-8. 5 Res Commun 285, 1084	ŀ-8.	
Species Reactivit	у	Species reactivity is de	etermined 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 I	P: Immunoprecipit	ation		
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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