| e at -20C | Spry1 (D9V6I) Rabbit mAb | | Cell Signaling TECHNOLOGY® | | |
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| Applications: WB, IP | Reactivity: H M | Sensitivity: Endogenous | MW (kDa): 35 | Source/Isotype: Rabbit IgG | UniProt ID: #O43609 | Entrez-Gene Id: 10252 | | |
|-------------------------------------|--------------------|--|---|---|------------------------------------|--------------------------|--|--|
| Product Usage Information | W | pplication estern Blotting munoprecipitation | | | 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 (D9V6I) Rabbit mAb recognizes endogenous levels of total Spry1 protein. This antibody may also cross-react with an unidentified protein at 65 kDa. | | | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val145 of human Spry1 protein. | | | | | | |
| 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). | | | | | | |
| | | Hacohen, N. et al. (199 Edwin, F. et al. (2009) Guy, G.R. et al. (2009) Minowada, G. et al. (19 mpagnatiello, M.A. et Hanafusa, H. et al. (20 Dzaki, K. et al. (2001) Fhum, T. et al. (2008) | Mol Pharmacol J Endocrinol 20 999) Developme al. (2001) J Cel 102) Nat Cell Bio Biochem Biophy | 76, 679-91. 03, 191-202. ent 126, 4465-75. I Biol 152, 1087-98. ol 4, 850-8. ys Res Commun 285, 14 | 084-8. | | | |
| Species Reactivity | spe | cies reactivity is deter | mined by testing | g in at least one approve | ed application (e.g., we | estern blot). | | |
| Western Blot Buffer | | | | te membrane with diluted primary antibody in 5% w/v nonfat dry with gentle shaking, overnight. | | | | |
| Applications Key | WB | B: Western Blotting IP: | Immunoprecipi | tation | | | | |
| Cross-Reactivity k | X : X | | B: bovine Dg: de | Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevi es expected | | | | |
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Spry1 (D9V6I) Rabbit mAb (#12993) Datasheet Without Images Cell Signaling Technology

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