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## Spry1 (D9V6P) Rabbit mAb



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Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** Entrez-Gene Id: WB, IP  $\mathsf{H}\,\mathsf{M}\,\mathsf{R}$ Endogenous 35 Rabbit IgG #O43609 10252 **Product Usage** Application Dilution Information

Information Western Blotting 1:1000
Immunoprecipitation 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  $-20^{\circ}$ 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 *Drosophila* 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

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. (1998) Cell 92, 253-63.

2. Edwin, F. et al. (2009) Mol Pharmacol 76, 679-91.

3. Guy, G.R. et al. (2009) J Endocrinol 203, 191-202.

4. Minowada, G. et al. (1999) *Development* 126, 4465-75.

5. Impagnatiello, M.A. et al. (2001) J Cell Biol 152, 1087-98.

6. Hanafusa, H. et al. (2002) Nat Cell Biol 4, 850-8.

7. Ozaki, K. et al. (2001) Biochem Biophys Res Commun 285, 1084-8.

8. Thum, T. et al. (2008) Nature 456, 980-4.

**Species Reactivity** 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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key 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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## 1/1/24, 9:17 AM **Limited Uses**

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