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# Spred1 (D6D8B) Rabbit mAb

**Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	50	Rabbit IgG	#Q7Z699	161742

**Product Usage Information****Application**

Western Blotting

**Dilution**

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°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

Spred1 (D6D8B) Rabbit mAb recognizes endogenous levels of total Spred1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln281 of human Spred1 protein.

**Background**

Spred1 belongs to the Spred family functioning as sprouty-related suppressor of Ras signaling downstream of growth receptor signaling (1,2). The protein has a N-terminal EVH1 (Ena/VASP homology-1) domain, followed by a KBD (c-Kit- binding domain) and a C-terminal SPR (Sprouty) domain. The C-terminal SPR domain functions to translocate Spred1 to the membrane following growth factor stimulation (1,3). The N-terminal EVH1 domain interacts with neurofibromin to bring the later to the membrane proximal signaling complex for down regulation of Ras signaling (4,5). Mutations of Spred1 are the causes of Legius Syndrome (6,7). Spred1 expression inhibits tumor cell motility and metastasis, and down regulation has been found in hepatocarcinoma and myeloblastic leukemia (8-10).

**Background References**

1. Wakioka, T. et al. (2001) *Nature* 412, 647-51.
2. Kato, R. et al. (2003) *Biochem Biophys Res Commun* 302, 767-72.
3. King, J.A. et al. (2005) *Biochem J* 388, 445-54.
4. Stowe, I.B. et al. (2012) *Genes Dev* 26, 1421-6.
5. Hirata, Y. et al. (2015) *J Biol Chem* , .
6. Brems, H. et al. (2007) *Nat Genet* 39, 1120-6.
7. Brems, H. and Legius, E. (2013) *Keio J Med* 62, 107-12.
8. Miyoshi, K. et al. (2004) *Oncogene* 23, 5567-76.
9. Yoshida, T. et al. (2006) *Oncogene* 25, 6056-66.
10. Pasmant, E. et al. (2015) *Oncogene* 34, 631-8.

**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 BSA, 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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