

Spred1 (D6D8B) Rabbit mAb

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

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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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