

SFRP1 (D5A7) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	35	Rabbit IgG	#Q8N474	6422

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

SFRP1 (D5A7) Rabbit mAb detects endogenous levels of total SFRP1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to a region surrounding residue Gly49 of human SFRP1.

Background

Secreted Frizzled-related proteins (SFRPs) display homology and structural similarity to the extracellular cysteine-rich Wnt-binding domain of the G protein-coupled receptor Frizzled (1,2). To date, five distinct SFRPs (SFRP1 to 5) have been found in mammalian cells. These secreted proteins typically act as antagonists to Wnt signaling by directly binding and inhibiting Wnt proteins, or by binding Frizzled to block Wnt protein interaction with the receptor (3). The various SFRPs bind and regulate Wnt proteins differentially; these proteins also display distinct expression patterns as they play important roles in regulating development (4-7). SFRP proteins appear to act as tumor suppressors, with loss of expression or function correlating with many invasive forms of cancer. Deletion of the corresponding SFRP1 gene and promoter hypermethylation leading to gene silencing has been reported in a number of cancers. Abnormal expression of SFRP1 and other Wnt signaling proteins is associated with some cases of retinitis pigmentosa (reviewed in 8).

Background References

1. Dann, C.E. et al. (2001) *Nature* 412, 86-90.
2. Kawano, Y. and Kypta, R. (2003) *J Cell Sci* 116, 2627-34.
3. Bafico, A. et al. (1999) *J Biol Chem* 274, 16180-7.
4. Galli, L.M. et al. (2006) *Dev Dyn* 235, 681-90.
5. Wawrzak, D. et al. (2007) *Biochem Biophys Res Commun* 357, 1119-23.
6. Hu, E. et al. (1998) *Biochem Biophys Res Commun* 247, 287-93.
7. Mao, C. et al. (2000) *Arterioscler Thromb Vasc Biol* 20, 43-51.
8. Bovolenta, P. et al. (2008) *J Cell Sci* 121, 737-46.

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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