

#5266 Store at -20°C

Frizzled5 (D2H2) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	50-65	Rabbit IgG	#Q13467	7855

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

1:200

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

Frizzled5 (D2H2) Rabbit mAb detects endogenous levels of total Frizzled5 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro160 of human Frizzled5 protein.

Background

Frizzled (Fzd) belongs to the seven transmembrane-spanning G-protein-coupled receptor (GPCR) superfamily (1). Fzds have a large extracellular N-terminal region containing a cysteine-rich domain (CRD), which is involved in binding to Wnt proteins (1,2). The intracellular C-terminus binds to the PDZ domain of Dvl proteins, a major signaling component downstream of Fzd (3). Wnt proteins bind to Fzd and the co-receptors LRP5 or LRP6, and activate Wnt/β-catenin pathway through inhibiting phosphorylation of β-catenin by GSK3-β (4,5). In addition to this canonical Wnt/β-catenin pathway, some Wnt proteins can also activate the Fzd/Ca²⁺ pathway and Fzd/PCP (planar cell polarity) pathway (6,7). The mammalian Fzd subfamily has 10 members (Fzd1 to Fzd10) and they may mediate signaling through different pathways (8). Some Fzds can also bind to other secreted proteins, like Norrin and R-Spondin (9-11).

Background References

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- Hendrickx, M. and Leyns, L. (2008) *Dev Growth Differ* 50, 229-43.

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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