

#3795 Store at -20C

## Frizzled5 Antibody

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

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

## 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 and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

## Specificity / Sensitivity

Frizzled5 Antibody detects transfected levels of total frizzled5 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with synthetic peptide corresponding to the amino acid sequence surrounding Ala550 of human frizzled5. Antibodies are purified by protein A and peptide affinity chromatography.

## 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/Ca<sup>2+</sup> 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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## 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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