

FZD5 / Frizzled 5 Antibody (aa461-510)
Rabbit Polyclonal Antibody
Catalog # ALS16839**Specification**

FZD5 / Frizzled 5 Antibody (aa461-510) - Product Information

Application	IHC, IF, WB
Primary Accession	Q13467
Other Accession	7855
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	64507

FZD5 / Frizzled 5 Antibody (aa461-510) - Additional Information**Gene ID** 7855**Other Names**

FZD5, C2orf31, DKFZP434E2135, Frizzled family receptor 5, Fz5, Fzd-5, FzE5, Frizzled 5, Frizzled-5, Wnt receptor, Fz-5, HFZ5

Target/Specificity

FZD5 Antibody detects endogenous levels of total FZD5 protein.

Reconstitution & Storage

PBS (without Mg²⁺, Ca²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C for up to one year.

Precautions

FZD5 / Frizzled 5 Antibody (aa461-510) is for research use only and not for use in diagnostic or therapeutic procedures.

FZD5 / Frizzled 5 Antibody (aa461-510) - Protein Information**Name** FZD5**Synonyms** C2orf31**Function**

Receptor for Wnt proteins (PubMed: [9054360](http://www.uniprot.org/citations/9054360), PubMed: [10097073](http://www.uniprot.org/citations/10097073), PubMed: [20530549](http://www.uniprot.org/citations/20530549)). Can activate WNT2, WNT10B, WNT5A, but not WNT2B or WNT4 (in vitro); the in vivo situation may be different since not all of these are known to be coexpressed (By similarity). In neurons, activation of WNT7A promotes formation of synapses (PubMed: [20530549](http://www.uniprot.org/citations/20530549)). Functions in

the canonical Wnt/beta-catenin signaling pathway. The canonical Wnt/beta-catenin signaling pathway leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes (By similarity). A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues (Probable). Plays a role in yolk sac angiogenesis and in placental vascularization (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q8CHL0}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8CHL0}. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9EQD0}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9EQD0}. Synapse {ECO:0000250|UniProtKB:Q8CHL0}. Perikaryon {ECO:0000250|UniProtKB:Q8CHL0}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8CHL0}. Cell projection, axon {ECO:0000250|UniProtKB:Q8CHL0}. Note=Localized at the plasma membrane and also found at the Golgi. {ECO:0000250|UniProtKB:Q9EQD0}

Volume

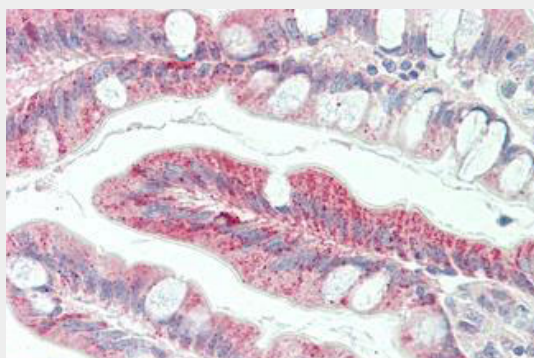
50 µl

FZD5 / Frizzled 5 Antibody (aa461-510) - Protocols

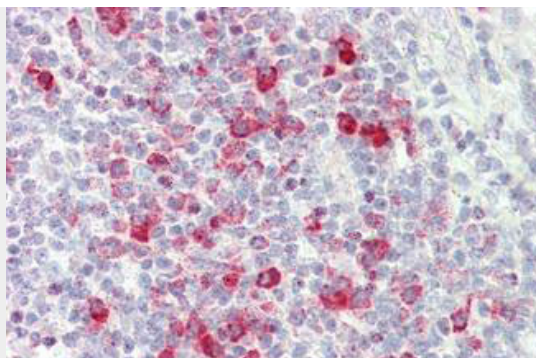
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

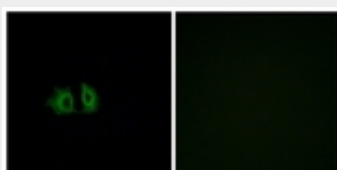
FZD5 / Frizzled 5 Antibody (aa461-510) - Images



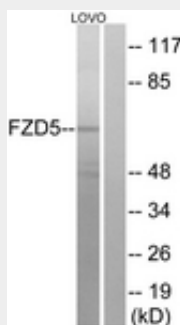
Anti-FZD5 / Frizzled 5 antibody IHC staining of human small intestine.



Anti-FZD5 / Frizzled 5 antibody IHC staining of human tonsil.



Immunofluorescence of A549 cells, using FZD5 Antibody.



Western blot of extracts from LOVO cells, using FZD5 Antibody.

FZD5 / Frizzled 5 Antibody (aa461-510) - Background

Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. Interacts specifically with Wnt5A to induce the beta- catenin pathway.

FZD5 / Frizzled 5 Antibody (aa461-510) - References

Wang Y.,et al.J. Biol. Chem. 271:4468-4476(1996).
Saitoh T.,et al.Int. J. Oncol. 19:105-110(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Tanaka S.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:10164-10169(1998).