

**FZD9 / Frizzled 9 Antibody (aa542-591)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS17180****Specification**

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**FZD9 / Frizzled 9 Antibody (aa542-591) - Product Information**

Application	IHC-P, IF, WB
Primary Accession	<a href="#">O00144</a>
Other Accession	<a href="#">8326</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	64466

**FZD9 / Frizzled 9 Antibody (aa542-591) - Additional Information****Gene ID** 8326**Other Names**

FZD9, CD349, Frizzled homolog 9, Fz-9, Frizzled family receptor 9, Frizzled-9, Frizzled 9, Fz9, HFz9, CD349 antigen, Frizzled homolog fzd3, FzE6

**Target/Specificity**

FZD9 Antibody detects endogenous levels of total FZD9 protein.

**Reconstitution & Storage**

PBS (without Mg<sup>2+</sup>, Ca<sup>2+</sup>), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol.  
Store at -20°C for up to one year.

**Precautions**

FZD9 / Frizzled 9 Antibody (aa542-591) is for research use only and not for use in diagnostic or therapeutic procedures.

**FZD9 / Frizzled 9 Antibody (aa542-591) - Protein Information****Name** FZD9**Synonyms** FZD3**Function**

Receptor for WNT2 that is 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 (By similarity). Plays a role in neuromuscular junction (NMJ) assembly by negatively regulating the clustering of acetylcholine receptors (AChR) through the beta-catenin canonical signaling pathway (By similarity). May play a role in neural progenitor cells (NPCs) viability through the beta-catenin canonical signaling pathway by negatively regulating cell cycle arrest leading to inhibition of neuron apoptotic process

(PubMed:<a href="http://www.uniprot.org/citations/27509850" target="\_blank">27509850</a>). During hippocampal development, regulates neuroblast proliferation and apoptotic cell death. Controls bone formation through non canonical Wnt signaling mediated via ISG15. Positively regulates bone regeneration through non canonical Wnt signaling (By similarity).

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9R216}; Multi-pass membrane protein.  
Note=Relocalizes DVL1 to the cell membrane leading to phosphorylation of DVL1 and AXIN1 relocalization to the cell membrane. {ECO:0000250|UniProtKB:Q8K4C8}

#### Tissue Location

Expressed predominantly in adult and fetal brain, testis, eye, skeletal muscle and kidney. Moderately expressed in pancreas, thyroid, adrenal cortex, small intestine and stomach Detected in fetal liver and kidney. Expressed in neural progenitor cells (PubMed:27509850).

#### Volume

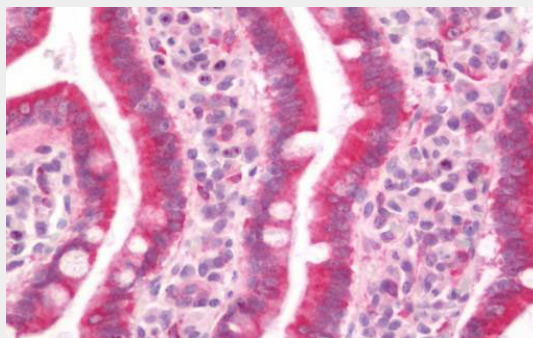
50 µl

### FZD9 / Frizzled 9 Antibody (aa542-591) - Protocols

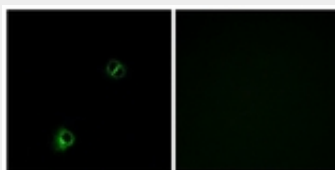
Provided below are standard protocols that you may find useful for product applications.

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

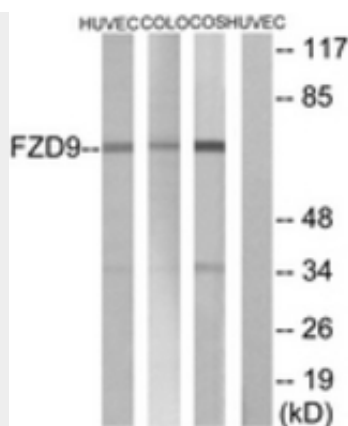
### FZD9 / Frizzled 9 Antibody (aa542-591) - Images



Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of A549 cells, using FZD9 Antibody.



Western blot of extracts from HUVEC/COLO/COS cells, using FZD9 Antibody.

### **FZD9 / Frizzled 9 Antibody (aa542-591) - 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.

### **FZD9 / Frizzled 9 Antibody (aa542-591) - References**

- Wang Y.-K.,et al.Hum. Mol. Genet. 6:465-472(1997).  
Hillier L.W.,et al.Nature 424:157-164(2003).  
Tanaka S.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:10164-10169(1998).