

FZD9 / Frizzled 9 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10808

Specification

FZD9 / Frizzled 9 Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	O00144
Reactivity	Human, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64kDa KDa

FZD9 / Frizzled 9 Antibody (N-Terminus) - Additional Information

Gene ID 8326

Other Names

Frizzled-9, Fz-9, hFz9, FzE6, CD349, FZD9, FZD3

Target/Specificity

Human FZD9 / Frizzled 9. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except FZD10 (67%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

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

FZD9 / Frizzled 9 Antibody (N-Terminus) - 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:27509850). 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

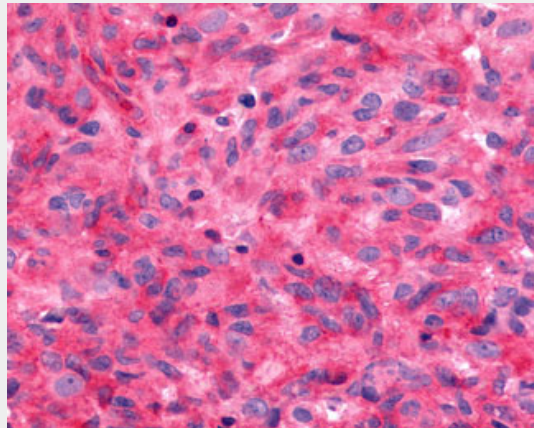
50 µl

FZD9 / Frizzled 9 Antibody (N-Terminus) - Protocols

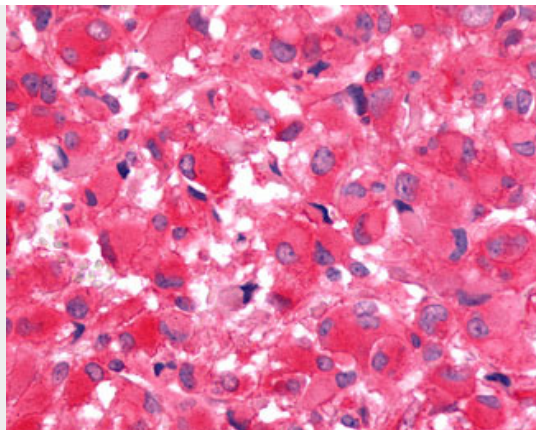
Provided below are standard protocols that you may find useful for product applications.

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

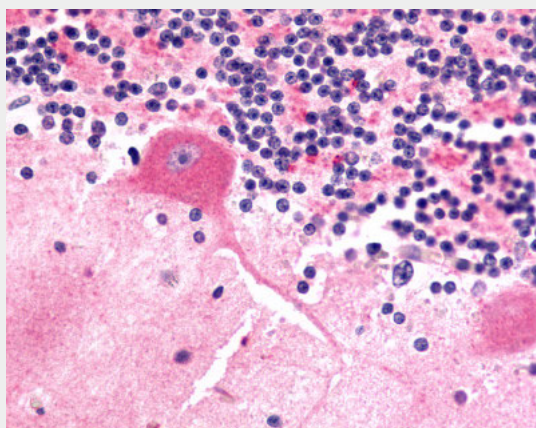
FZD9 / Frizzled 9 Antibody (N-Terminus) - Images



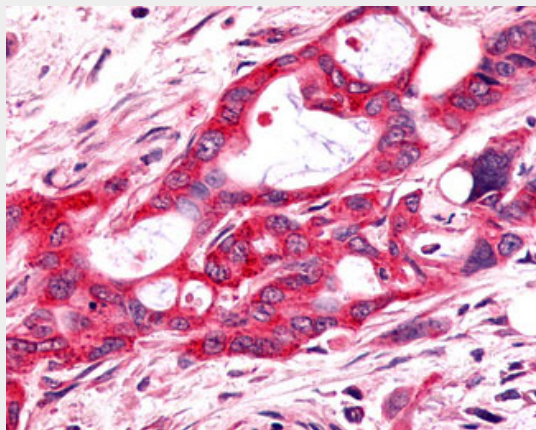
Anti-FZD9 / Frizzled 9 antibody IHC of human Brain, Glioblastoma.



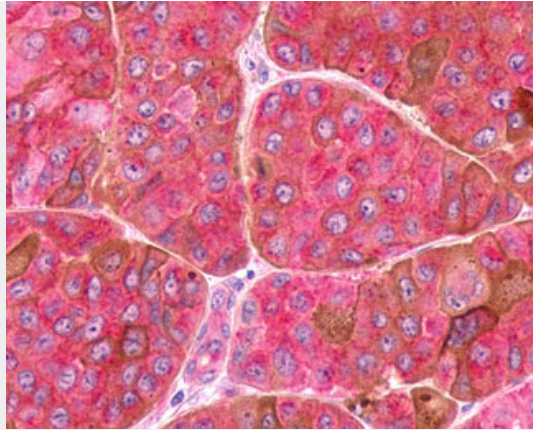
Anti-FZD9 / Frizzled 9 antibody IHC of human Brain, Glioblastoma.



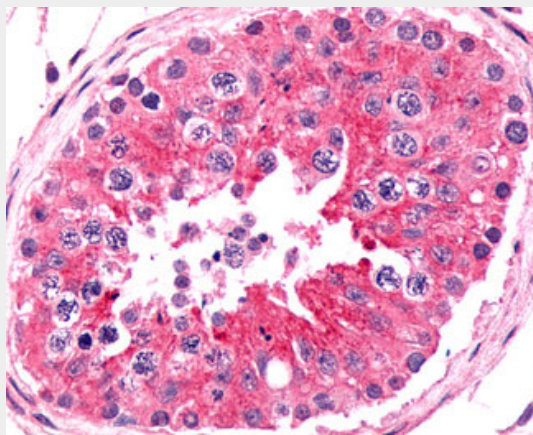
Anti-FZD9 / Frizzled 9 antibody ALS10808 IHC of human brain, Purkinje neurons.



Anti-FZD9 / Frizzled 9 antibody IHC of human Pancreas, Carcinoma.



Anti-FZD9 / Frizzled 9 antibody IHC of human Skin, Melanoma.



Anti-FZD9 / Frizzled 9 antibody IHC of human testis.

FZD9 / Frizzled 9 Antibody (N-Terminus) - 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 (N-Terminus) - 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).