10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FZD1 / Frizzled 1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10668

Specification

FZD1 / Frizzled 1 Antibody (N-Terminus) - Product Information

Application	**IHC**
Primary Accession	Q9UP38
Reactivity	**Human, Mouse, Rabbit, Hamster, Monkey, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**71kDa KDa**

FZD1 / Frizzled 1 Antibody (N-Terminus) - Additional Information

Gene ID 8321

Other Names
Frizzled-1, Fz-1, hFz1, FzE1, FZD1

Target/Specificity
Human FZD1 / Frizzled 1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
FZD1 / Frizzled 1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

FZD1 / Frizzled 1 Antibody (N-Terminus) - Protein Information

Name FZD1

Function
Receptor for Wnt proteins (PubMed:10557084). Activated by WNT3A, WNT3, WNT1 and to a lesser extent WNT2, but apparently not by WNT4, WNT5A, WNT5B, WNT6, WNT7A or WNT7B (PubMed:10557084). Contradictory results showing activation by WNT7B have been described for mouse (By similarity). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:10557084). 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 (PubMed:10557084). 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).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney

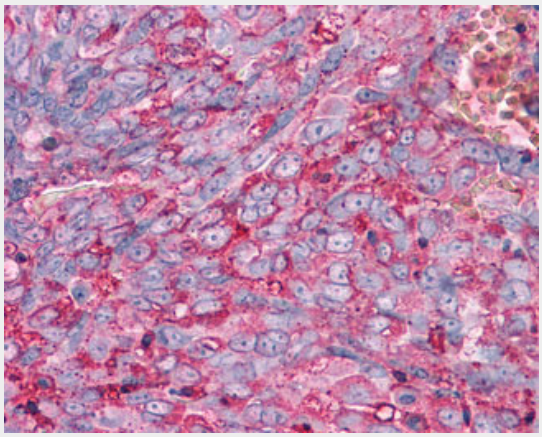
Volume
50 µl

FZD1 / Frizzled 1 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 Cytomety
- Cell Culture

FZD1 / Frizzled 1 Antibody (N-Terminus) - Images



Anti-FZD1 / Frizzled 1 antibody IHC of human Ovary, Carcinoma.

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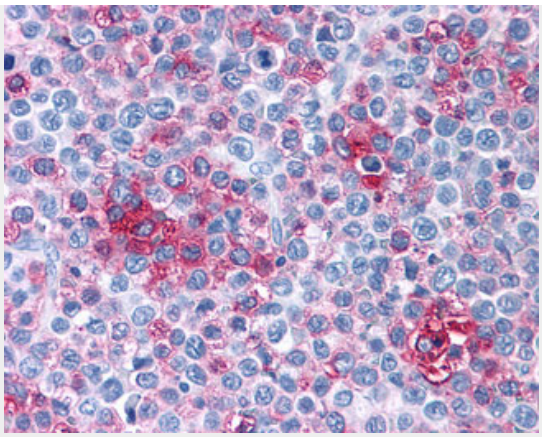
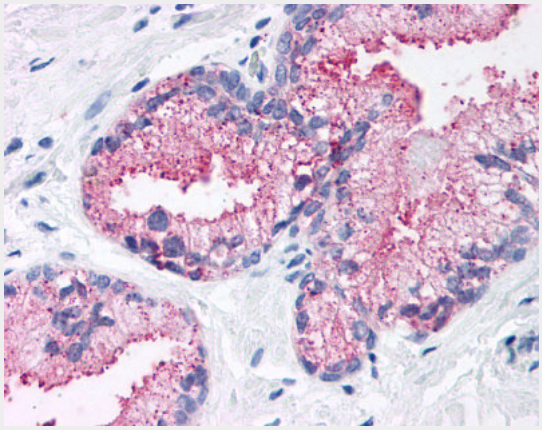
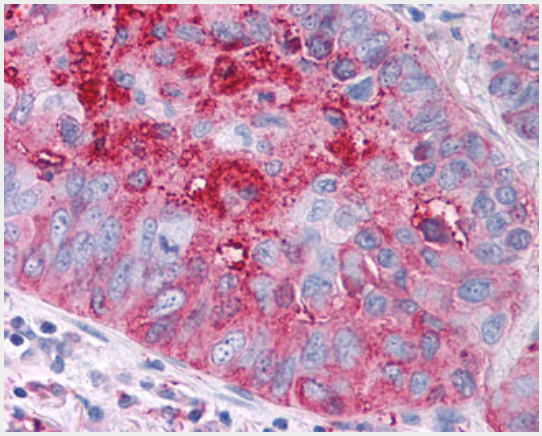


Anti-FZD1 / Frizzled 1 antibody IHC of human Lymph Node, Non-Hodgkins Lymphoma.



Anti-FZD1 / Frizzled 1 antibody ALS10668 IHC of human prostate.



Anti-FZD1 / Frizzled 1 antibody IHC of human Lung, Non-Small Cell Carcinoma.

FZD1 / Frizzled 1 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. Activated by

Wnt3A, Wnt3, Wnt1 and to a lesser extent Wnt2, but not by Wnt4, Wnt5A, Wnt5B, Wnt6, Wnt7A or Wnt7B.

FZD1 / Frizzled 1 Antibody (N-Terminus) - References

Gazit A.,et al.Oncogene 18:5959-5966(1999).
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