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FZD6 / Frizzled 6 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10772

Specification

FZD6 / Frizzled 6 Antibody (N-Terminus) - Product Information

Application	**IHC, ICC**
Primary Accession	O60353
Reactivity	**Human, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**79kDa KDa**

FZD6 / Frizzled 6 Antibody (N-Terminus) - Additional Information

Gene ID 8323

Other Names
Frizzled-6, Fz-6, hFz6, FZD6

Target/Specificity
Human Frizzled-6. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except FZD3 (50%).

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

Precautions
FZD6 / Frizzled 6 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

FZD6 / Frizzled 6 Antibody (N-Terminus) - Protein Information

Name FZD6

Function
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. Together with FZD3, is involved in the neural tube closure and plays a role in the regulation of the establishment of planar cell polarity (PCP), particularly in the orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and vestibular sensory cells located in the inner ear (By similarity).

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Cellular Location
Membrane {ECO:0000250|UniProtKB:Q61089}; Multi- pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:Q61089}; Multi-pass membrane protein. Cell surface {ECO:0000250|UniProtKB:Q61089}. Apical cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q61089}; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q61089}; Multi-pass membrane protein. Note=Colocalizes with FZD3 at the apical face of cells (By similarity). Localizes to the endoplasmic reticulum membrane in the presence of LMBR1L (By similarity). {ECO:0000250|UniProtKB:Q61089}

Tissue Location
Detected in adult heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, thymus, prostate, testis, ovary, small intestine and colon. In the fetus, expressed in brain, lung, liver and kidney

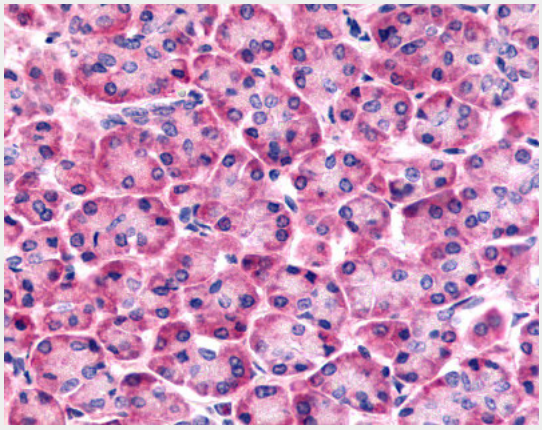
Volume
50 µl

FZD6 / Frizzled 6 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

FZD6 / Frizzled 6 Antibody (N-Terminus) - Images



Anti-Frizzled-6 antibody ALS10772 IHC of human pancreas.

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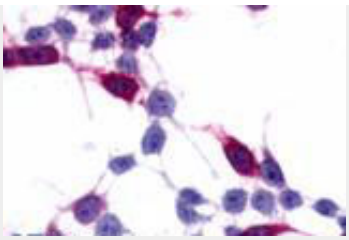

Anti-Frizzled-6 antibody ALS10772 immunocytochemistry (ICC) staining of HEK293 human embryonic...

FZD6 / Frizzled 6 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. Together with FZD3, is involved in the neural tube closure and plays a role in the regulation of the establishment of planar cell polarity (PCP), particularly in the orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and vestibular sensory cells located in the inner ear (By similarity).

FZD6 / Frizzled 6 Antibody (N-Terminus) - References

Tokuhara M.,et al.Biochem. Biophys. Res. Commun. 243:622-627(1998).
Gazit A.,et al.Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.
Tanner S.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:13901-13906(2001).
Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).