

# Frizzled 6 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51945

## **Product Information**

ApplicationWBPrimary Accession060353

**Reactivity** Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW79292

# **Additional Information**

Gene ID 8323

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

**Target/Specificity** KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human Frizzled 6. The exact sequence is proprietary.

**Dilution** WB~~1:1000

Format 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage** Store at -20 °C.Stable for 12 months from date of receipt

### **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).

#### **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

# **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.

# 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.