

FZD6 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11009c**Specification**

FZD6 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [O60353](#)**FZD6 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 8323**Other Names**

Frizzled-6, Fz-6, hFz6, FZD6

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FZD6 Antibody (Center) Blocking peptide - 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

FZD6 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

FZD6 Antibody (Center) Blocking peptide - Images**FZD6 Antibody (Center) Blocking peptide - Background**

This gene represents a member of the 'frizzled' gene family, which encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The protein encoded by this family member contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, and seven transmembrane domains, but unlike other family members, this protein does not contain a C-terminal PDZ domain-binding motif. This protein functions as a negative regulator of the canonical Wnt/beta-catenin signaling cascade, thereby inhibiting the processes that trigger oncogenic transformation, cell proliferation, and inhibition of apoptosis. Alternative splicing results in multiple transcript variants.

FZD6 Antibody (Center) Blocking peptide - References

Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Kim, J.G., et al. J. Korean Med. Sci. 24(3):443-447(2009) Miyakoshi, T., et al. Endocr. Pathol. 19(4):261-273(2008) Sirchia, R., et al. Biol. Chem. 388(5):457-465(2007) Lyons, J.P., et al. Exp. Cell Res. 298(2):369-387(2004)