

FZD4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9471b**Specification**

FZD4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9ULV1](#)**FZD4 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 8322

Other Names

Frizzled-4, Fz-4, hFz4, FzE4, CD344, FZD4

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.

FZD4 Antibody (C-term) Blocking Peptide - Protein Information

Name FZD4

Function

Receptor for Wnt proteins (PubMed: [30135577](http://www.uniprot.org/citations/30135577)). Most frizzled receptors are coupled to the beta-catenin (CTNNB1) canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin (CTNNB1) and activation of Wnt target genes (PubMed: [30135577](http://www.uniprot.org/citations/30135577)). Plays a critical role in retinal vascularization by acting as a receptor for Wnt proteins and norrin (NDP) (By similarity). In retina, it can be activated by Wnt protein-binding and also by Wnt-independent signaling via binding of norrin (NDP), promoting in both cases beta-catenin (CTNNB1) accumulation and stimulation of LEF/TCF-mediated transcriptional programs (By similarity). 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.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Almost ubiquitous (PubMed:10544037). Largely expressed in adult heart, skeletal muscle, ovary, and fetal kidney (PubMed:10544037). Moderate amounts in adult liver, kidney, pancreas, spleen, and fetal lung, and small amounts in placenta, adult lung, prostate, testis, colon, fetal brain and liver (PubMed:10544037)

FZD4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

FZD4 Antibody (C-term) Blocking Peptide - Images**FZD4 Antibody (C-term) Blocking Peptide - Background**

FZD4 may play a role as a positive regulator of the Wingless type MMTV integration site signaling pathway.

FZD4 Antibody (C-term) Blocking Peptide - References

??lls, A., et al. Ophthalmic Genet. 31(1):37-43(2010)??renser, K.A., et al. Arch. Ophthalmol. 127(12):1649-1654(2009)??erges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)??obitaille, J.M., et al. Ophthalmic Genet. 30(1):23-30(2009)??ickenbrock, L., et al. Int. J. Oncol. 33(6):1215-1221(2008)