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FZD5 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP14210b

Specification

FZD5 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q13467

FZD5 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 7855

Other Names
Frizzled-5, Fz-5, hFz5, FzE5, FZD5, C2orf31

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.

FZD5 Antibody (C-term) Blocking Peptide - Protein Information

Name FZD5

Synonyms C2orf31

Function
Receptor for Wnt proteins (PubMed:9054360, PubMed:10097073, PubMed:20530549). Can activate WNT2, WNT10B, WNT5A, but not WNT2B or WNT4 (in vitro); the in vivo situation may be different since not all of these are known to be coexpressed (By similarity). In neurons, activation of WNT7A promotes formation of synapses (PubMed:20530549). Functions in the canonical Wnt/beta-catenin signaling pathway. 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 (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 (Probable). Plays a role in yolk sac angiogenesis and in placental vascularization (By similarity).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q8CHL0}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8CHL0}. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9EQD0}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9EQD0}. Synapse {ECO:0000250|UniProtKB:Q8CHL0}. Perikaryon {ECO:0000250|UniProtKB:Q8CHL0}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8CHL0}. Cell projection, axon {ECO:0000250|UniProtKB:Q8CHL0}. Note=Localized at the plasma membrane and also found at the Golgi. {ECO:0000250|UniProtKB:Q9EQD0}

FZD5 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FZD5 Antibody (C-term) Blocking Peptide - Images

FZD5 Antibody (C-term) Blocking Peptide - Background

Members of the 'frizzled' gene family encode7-transmembrane domain proteins that are receptors for Wntsignaling proteins. The FZD5 protein is believed to be thereceptor for the Wnt5A ligand.

FZD5 Antibody (C-term) Blocking Peptide - References

Moller, M., et al. BMC Infect. Dis. 10, 154 (2010) :Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)Terabayashi, T., et al. J. Biol. Chem. 284(39):26716-26724(2009)Kim, J.G., et al. J. Korean Med. Sci. 24(3):443-447(2009)Lin, Z., et al. J. Biol. Chem. 283(48):33053-33058(2008)