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FZD9 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14338a

Specification

FZD9 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O00144

FZD9 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8326

Other Names
Frizzled-9, Fz-9, hFz9, FzE6, CD349, FZD9, FZD3

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.

FZD9 Antibody (N-term) Blocking Peptide - Protein Information

Name FZD9

Synonyms FZD3

Function
Receptor for WNT2 that is 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 (By similarity). Plays a role in neuromuscular junction (NMJ) assembly by negatively regulating the clustering of acetylcholine receptors (AChR) through the beta-catenin canonical signaling pathway (By similarity). May play a role in neural progenitor cells (NPCs) viability through the beta- catenin canonical signaling pathway by negatively regulating cell cycle arrest leading to inhibition of neuron apoptotic process (PubMed:27509850). During hippocampal development, regulates neuroblast proliferation and apoptotic cell death. Controls bone formation through non canonical Wnt signaling mediated via ISG15. Positively regulates bone regeneration through non canonical Wnt signaling (By similarity).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q9R216}; Multi-pass membrane protein. Note=Relocalizes DVL1 to the cell membrane leading to phosphorylation of DVL1 and AXIN1 relocalization to the cell membrane. {ECO:0000250|UniProtKB:Q8K4C8}

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Tissue Location
Expressed predominantly in adult and fetal brain, testis, eye, skeletal muscle and kidney. Moderately expressed in pancreas, thyroid, adrenal cortex, small intestine and stomach Detected in fetal liver and kidney. Expressed in neural progenitor cells (PubMed:27509850).

FZD9 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FZD9 Antibody (N-term) Blocking Peptide - Images

FZD9 Antibody (N-term) Blocking Peptide - Background

Members of the 'frizzled' gene family encode7-transmembrane domain proteins that are receptors for Wntsignaling proteins. The FZD9 gene is located within the Williamssyndrome common deletion region of chromosome 7, and heterozygousdeletion of the FZD9 gene may contribute to the Williams syndromephenotype. FZD9 is expressed predominantly in brain, testis, eye,skeletal muscle, and kidney.

FZD9 Antibody (N-term) Blocking Peptide - References

Trubiani, O., et al. J. Cell. Physiol. 225(1):123-131(2010)Saus, E., et al. J Psychiatr Res (2010) In press :Fujimoto, T., et al. Int. J. Oncol. 35(4):861-866(2009)Kim, J.G., et al. J. Korean Med. Sci. 24(3):443-447(2009)Wang, H.X., et al. Mol. Hum. Reprod. 15(1):11-17(2009)