Frizzled-4 (FZD4) Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Frizzled-4 (FZD4), Polyclonal Antibody
Full Product Name	Frizzled-4 Polyclonal Antibody
Product Gene Name	anti-FZD4 antibody
Clonality	Polyclonal
Molecular Weight	59,881 Da
OMIM	133780
3D Structure	ModBase 3D Structure for Q9ULV1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-FZD4 antibody	MBS8522761 is an antibody targeting FZD4. Also known as Frizzled-4 Polyclonal Antibody.
Other Notes	Small volumes of anti-FZD4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FZD4. It may not necessarily be applicable to this product.

NCBI GI #	22547161
NCBI GeneID	8322
NCBI Accession #	NP_036325.2
UniProt Primary Accession #	Q9ULV1
UniProt Secondary Accession #	Q14C97; Q6S9E4; A8K9Q3
UniProt Related Accession #	Q9ULV1
GenBank Nucleotide #	NM_012193.3
NCBI Official Full Name	frizzled-4
NCBI Official Synonym Full Names	frizzled class receptor 4
NCBI Official Symbol	FZD4
NCBI Official Synonym Symbols	Fz4; EVR1; FEVR; Fz-4; FzE4; GPCR; hFz4; CD344; FZD4S
UniProt Protein Name	Frizzled-4
UniProt Synonym Protein Names	FzE4; CD_antigen: CD344
Protein Family	Frizzled
UniProt Gene Name	FZD4
UniProt Synonym Gene Names	Fz-4; hFz4
NCBI Protein Information	frizzled-4

NCBI Summary for FZD4	This gene is a member of the frizzled gene family. Members of this family encode seven-transmembrane domain proteins that are receptors for the Wingless type MMTV integration site family of signaling proteins. Most frizzled receptors are coupled to the beta-catenin canonical signaling pathway. This protein may play a role as a positive regulator of the Wingless type MMTV integration site signaling pathway. A transcript variant retaining intronic sequence and encoding a shorter isoform has been described, however, its expression is not supported by other experimental evidence. [provided by RefSeq, Jul 2008]
UniProt Comments for FZD4	Receptor for Wnt proteins. Most of 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. Plays a critical role in retinal vascularization by acting as a receptor for Wnt proteins and norrin (NDP). In retina, it can be both activated by Wnt protein-binding, but also by a Wnt-independent signaling via binding of norrin (NDP), promoting in both cases beta-catenin (CTNNB1) accumulation and stimulation of LEF/TCF-mediated transcriptional programs. 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.
Research Articles on FZD4	**1.** Accessory proteins in Frizzled (FZD) receptor complexes are thought to determine ligand selectivity and signaling amplitude.
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