Frizzled 1 (FZD1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Frizzled 1 (FZD1), Polyclonal Antibody
Full Product Name	Rabbit anti-Frizzled 1 Antibody
Product Gene Name	anti-FZD1 antibody
Product Synonym Names	Frizzled-1; Fz-1; hFz1; FzE1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	71,158 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (90893783..90898132). Location: 7q21
OMIM	603408
3D Structure	ModBase 3D Structure for Q9UP38
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Frizzled 1. The exact sequence is proprietary.
Product Categories/Family for anti-FZD1 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-FZD1 antibody	Western Blot (WB), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-FZD1 antibody	WB: 1:500-1:1000 IF:IC: 1:100-1:500
Related Product Information for anti-FZD1 antibody	MBS4513238 is an antibody targeting FZD1. Also known as Rabbit anti-Frizzled 1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-FZD1 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 FZD1. It may not necessarily be applicable to this product.

NCBI GI #	4503825
NCBI GeneID	8321
NCBI Accession #	NP_003496.1

UniProt Primary Accession #	Q9UP38
UniProt Secondary Accession #	O70421; Q08463
UniProt Related Accession #	Q9UP38
GenBank Nucleotide #	NM_003505.1
NCBI Official Full Name	frizzled-1
NCBI Official Synonym Full Names	frizzled family receptor 1
NCBI Official Symbol	FZD1
UniProt Protein Name	Frizzled-1
UniProt Synonym Protein Names	FzE1
Protein Family	Frizzled
UniProt Gene Name	FZD1
UniProt Synonym Gene Names	Fz-1; hFz1
UniProt Entry Name	FZD1_HUMAN
NCBI Protein Information	frizzled-1; fz-1; fzE1; hFz1; Wnt receptor; frizzled homolog 1; frizzled, Drosophila, homolog of, 1; frizzled 1, seven transmembrane spanning receptor
NCBI Summary for FZD1	Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD1 protein contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, 7 transmembrane domains, and a C-terminal PDZ domain-binding motif. The FZD1 transcript is expressed in various tissues. [provided by RefSeq, Jul 2008]
UniProt Comments for FZD1	FZD1: 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. Activated by Wnt3A, Wnt3, Wnt1 and to a lesser extent Wnt2, but not by Wnt4, Wnt5A, Wnt5B, Wnt6, Wnt7A or Wnt7B. Belongs to the G-protein coupled receptor Fz/Smo family. Protein type: Receptor, GPCR; GPCR, Fz/Smo family; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q21 Cellular Component: focal adhesion; cell surface; plasma membrane; integral to membrane Molecular Function: G-protein coupled receptor activity; Wnt-protein binding; protein binding; Wnt receptor activity; frizzled binding; receptor binding; PDZ domain binding Biological Process: neuron differentiation; response to drug; G-protein coupled receptor protein signaling pathway; cell-cell signaling; epithelial cell differentiation; positive regulation of transcription, DNA-dependent; hard palate development; positive regulation of transcription factor activity; positive regulation of protein amino acid phosphorylation; Wnt receptor signaling pathway through beta-catenin; negative regulation of transcription, DNA-dependent; negative regulation of BMP signaling pathway
Research Articles on FZD1	**1.** FZD1 appears to mediate multidrug resistance by regulating the Wnt/beta-catenin pathway
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