FZD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FZD1, Polyclonal Antibody
Full Product Name	Anti-FZD1 Antibody, Rabbit Polyclonal
Product Gene Name	anti-FZD1 antibody
Product Synonym Names	Frizzled-1/FZD1 Antibody, Rabbit PAb, Antigen Affinity Purified; frizzled class receptor 1; Anti-AW227548 Antibody; Anti-FZ-1 Antibody; Anti-Fz1 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse Frizzled-1/FZD1
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	71,127 Da
Chromosome Location	Chromosome: 5; NC_000071.6 (4753839..4758216, complement). Location: 5 A1; 5 2.61 cM
3D Structure	ModBase 3D Structure for O70421
Immunogen	Recombinant Mouse Frizzled-1/FZD1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Frizzled-1/FZD1. Frizzled-1/FZD1 specific IgG was purified by Mouse Frizzled-1/FZD1 affinity chromatography.
Product Categories/Family for anti-FZD1 antibody	Non-Canonical Wnt Pathway
Applications Tested/Suitable for anti-FZD1 antibody	ELISA (EIA)
Application Notes for anti-FZD1 antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-FZD1 antibody	Frizzled-1, also known as FZD1, belongs to theG-protein coupled receptor Fz/Smo family. FZD1 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. FZD1 is expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney. Frizzled is a family of G protein-coupled receptor proteins that serve as receptors in the Wnt signaling pathway and other signaling pathways. When activated, Frizzled leads to activation of Dishevelled in the cytosol. Frizzled proteins and the genes encoding them have been identified in an array of animals, from sponges to humans. Frizzled proteins play key roles in governing cell polarity, embryonic development, formation of neural synapses, cell proliferation, and many other processes in developing and adult organisms. 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.

Product References and Citations for anti-FZD1 antibody	Gazit A., et al., (1999), Human frizzled 1 interacts with transforming Wnts to transduce a TCF dependent transcriptional response. Oncogene 18:5959-5966.Sagara N., et al., (1998), Molecular cloning, differential expression, and chromosomal localization of human frizzled-1, frizzled-2, and frizzled-7.Biochem. Biophys. Res. Commun. 252:117-122.Scherer S.W., et al., (2003), Human chromosome 7: DNA sequence and biology.Science 300:767-772.
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.
Searchable Terms for FZD1 purchase	MBS8110967 is an antibody targeting FZD1. Also known as Anti-FZD1 Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FZD1. It may not necessarily be applicable to this product.

NCBI GI #	31981157
NCBI GeneID	14362
NCBI Accession #	NP_067432.2
UniProt Primary Accession #	O70421
UniProt Secondary Accession #	O08974; Q7TS82
UniProt Related Accession #	O70421
GenBank Nucleotide #	NM_021457.3
NCBI Official Full Name	frizzled-1
NCBI Official Synonym Full Names	frizzled homolog 1 (Drosophila)
NCBI Official Symbol	Fzd1
NCBI Official Synonym Symbols	Fz1; FZ-1; AW227548
UniProt Protein Name	Frizzled-1
Protein Family	Frizzled
UniProt Gene Name	Fzd1
UniProt Synonym Gene Names	Fz-1; mFz1
UniProt Entry Name	FZD1_MOUSE
NCBI Protein Information	frizzled-1; mFz1

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: Membrane protein, multi-pass; Membrane protein, integral; GPCR, Fz/Smo family; Receptor, GPCR Cellular Component: neuron projection; focal adhesion; cell surface; membrane; integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; identical protein binding; Wnt-protein binding; signal transducer activity; Wnt receptor activity; protein homodimerization activity; transmembrane receptor activity; protein heterodimerization activity; frizzled binding; PDZ domain binding; receptor binding Biological Process: response to drug; Wnt receptor signaling pathway; multicellular organismal development; positive regulation of transcription, DNA-dependent; Wnt receptor signaling pathway through beta-catenin; signal transduction; negative regulation of BMP signaling pathway; G-protein coupled receptor protein signaling pathway; cell surface receptor linked signal transduction; cell-cell signaling; epithelial cell differentiation; hard palate development; positive regulation of transcription factor activity; positive regulation of protein amino acid phosphorylation; negative regulation of transcription, DNA-dependent
Research Articles on FZD1	**1.** results indicate that frizzled homolog 1(Drosophila)(Fzd1) is required for normal female fertility and may act in part to regulate oocyte maturation and cumulus cell function
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