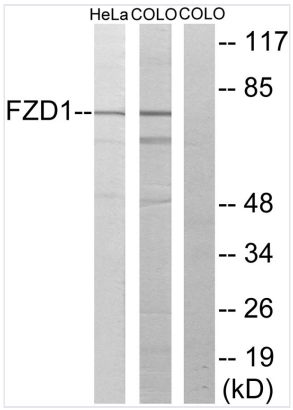
FZD1 Antibody

PRODUCT OVERVIEW

Product Name	FZD1, Antibody
Full Product Name	FZD1 Antibody
Product Gene Name	anti-FZD1 antibody
Product Synonym Names	frizzled 1; frizzled-1; Fz-1; FzE1; Wnt receptor
Species Reactivity	Human
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	FZD1 antibody detects endogenous levels of total FZD1 protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	71,158 Da
OMIM	603408
3D Structure	ModBase 3D Structure for Q9UP38
Immunogen	The antiserum was produced against synthesized peptide derived from internal of human FZD1.
Product Categories/Family for anti-FZD1 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FZD1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-FZD1 antibody	WB: 1:500~1:1000 ELISA: 1:5000
Related Product Information for anti-FZD1 antibody	MBS851737 is an antibody targeting FZD1. Also known as FZD1 Antibody. Reactive in Human.
Product References and Citations for anti-FZD1 antibody	Gazit A., Oncogene 18:5959-5966(1999). Sagara N., Biochem. Biophys. Res. Commun. 252:117-122(1998). Hillier L.W., Nature 424:157-164(2003).
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.



Western Blot (WB) of anti-FZD1 antibody
Western blot analysis of extracts from HeLa cells and COLO205 cells, using FZD1 antibody.

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 #	O94815; Q549T8; A4D1E8
UniProt Related Accession #	Q9UP38
GenBank Nucleotide #	NM_003505.1
NCBI Official Full Name	frizzled-1
NCBI Official Synonym Full Names	frizzled class 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
NCBI Protein Information	frizzled-1
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	Receptor for Wnt proteins (PubMed:10557084). Activated by WNT3A, WNT3, WNT1 and to a lesser extent WNT2, but apparently not by WNT4, WNT5A, WNT5B, WNT6, WNT7A or WNT7B (PubMed:10557084). Contradictory results showing activation by WNT7B have been described for mouse (). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:10557084). 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 (PubMed:10557084). 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).

Research Articles on FZD1	**1.** aken together, our results suggest that Sp1 plays a role in human osteoblast differentiation and mineralization, which is at least partially mediated by Sp1-dependent transactivation of FZD1.
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