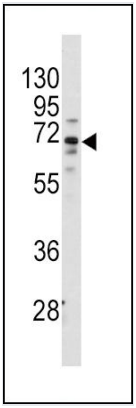
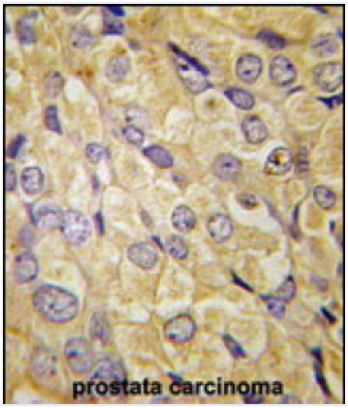
FZD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

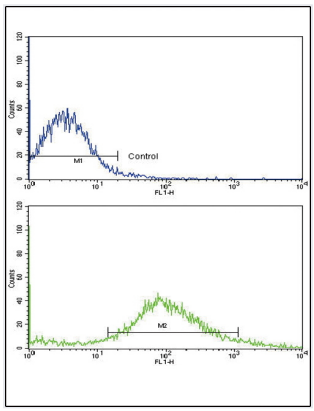
Product Name	FZD1, Polyclonal Antibody
Full Product Name	FZD1, ID (Frizzled-1, Fz-1, hFz1, FzE1) (MaxLight 750)
Product Gene Name	anti-FZD1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human FZD1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	71,158 Da
OMIM	603408
3D Structure	ModBase 3D Structure for Q9UP38
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 367-396 in the central region of human FZD1, UniProt Accession #NP_003496. Species sequence homology: mouse and rat
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-FZD1 antibody	Antibodies; Wnt Proteins
Applications Tested/Suitable for anti-FZD1 antibody	FLISA, Western Blot (WB), Flow Cytometry (FC/FACS), Immunohistochemistry (IHC)
Application Notes for anti-FZD1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-FZD1 antibody	Members of the 'frizzled' family are 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.
Product References and Citations for anti-FZD1 antibody	1. Quelard, D., (er) PLoS ONE 3(4), E1878 (2008). 2. Hardie, W.D., Am. J. Respir. Cell Mol. Biol. 37(3), 309-321 (2007). 3. Yang, L., J. Dermatol. Sci. 42(2), 111-119 (2006).
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	MBS6476949 is an antibody targeting FZD1. Also known as FZD1, ID (Frizzled-1, Fz-1, hFz1, FzE1) (MaxLight 750). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-FZD1 antibody
Western Blot analysis of Hela cell line lysates (35ug/lane) usingMBS629125. FZD1(arrow) was detected usingMBS629125.



Immunohistochemistry (IHC) of anti-FZD1 antibody
Formalin-fixed and paraffin-embedded human prostata carcinoma tissue usingMBS629125, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-FZD1 antibody
Flow cytometric analysis of NCI-H292 cells using MBS629125 (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
UniProt Primary Accession #	Q9UP38
UniProt Secondary Accession #	O94815; Q549T8; A4D1E8
UniProt Related Accession #	Q9UP38
GenBank Nucleotide #	NM_003505
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
UniProt Entry Name	FZD1_HUMAN
NCBI Protein Information	frizzled-1; Wnt receptor; frizzled 1, seven transmembrane spanning receptor; frizzled family receptor 1; frizzled homolog 1; frizzled, Drosophila, homolog of, 1; fz-1; fzE1; hFz1
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
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