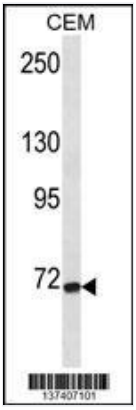
FZD3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FZD3, Polyclonal Antibody
Full Product Name	FZD3, CT (FZD3, Frizzled-3) (PE)
Product Gene Name	anti-FZD3 antibody
Product Synonym Names	FZD3; Frizzled-3
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 R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	76,263 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (28351722..28431785). Location: 8p21
OMIM	606143
3D Structure	ModBase 3D Structure for Q9NPG1
Immunogen	FZD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 495-525 amino acids from the C-terminal region of human FZD3.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-FZD3 antibody	Antibodies; Wnt Proteins
Applications Tested/Suitable for anti-FZD3 antibody	Western Blot (WB), FLISA
Application Notes for anti-FZD3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FZD3 antibody	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. The function of this protein is unknown, although it may play a role in mammalian hair follicle development.
Product References and Citations for anti-FZD3 antibody	Inkster, B., et al. Neuroimage 53(3):908-917(2010). Kawano, Y., et al. Br. J. Cancer 100(7):1165-1174(2009). Gregorio, S.P., et al. Psychiatry Res 165 (1-2), 1-9 (2009): Wang, H.X., et al. Mol. Hum. Reprod. 15(1):11-17(2009). Kishimoto, M., et al. Behav Brain Funct 4, 37 (2008).

Other Notes	Small volumes of anti-FZD3 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 FZD3 purchase	MBS6300564 is an antibody targeting FZD3. Also known as FZD3, CT (FZD3, Frizzled-3) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-FZD3 antibody
FZD3 Antibody (C-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the FZD3 antibody detected the FZD3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FZD3. It may not necessarily be applicable to this product.

NCBI GI #	8393378
NCBI GeneID	7976
NCBI Accession #	NP_059108.1
UniProt Primary Accession #	Q9NPG1
UniProt Related Accession #	Q9NPG1
GenBank Nucleotide #	NM_017412.3
NCBI Official Full Name	frizzled-3
NCBI Official Synonym Full Names	frizzled family receptor 3
NCBI Official Symbol	FZD3
NCBI Official Synonym Symbols	Fz-3
UniProt Protein Name	Frizzled-3
UniProt Gene Name	FZD3
UniProt Synonym Gene Names	Fz-3; hFz3
UniProt Entry Name	FZD3_HUMAN
NCBI Protein Information	frizzled-3; frizzled homolog 3; frizzled 3, seven transmembrane spanning receptor
NCBI Summary for FZD3	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. The function of this protein is unknown, although it may play a role in mammalian hair follicle development. Alternative splicing results in multiple transcript variants. This gene is a susceptibility locus for schizophrenia. [provided by RefSeq, Dec 2010]

UniProt Comments for FZD3	FZD3: 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. Belongs to the G-protein coupled receptor Fz/Smo family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral; GPCR, Fz/Smo family Chromosomal Location of Human Ortholog: 8p21 Cellular Component: cell surface; cell soma; axon; cytoplasm; apical plasma membrane; dendrite; presynaptic active zone; integral to membrane; plasma membrane; lateral plasma membrane Molecular Function: G-protein coupled receptor activity; Wnt-protein binding; protein binding; Wnt receptor activity; PDZ domain binding Biological Process: neuron differentiation; G-protein coupled receptor protein signaling pathway; positive regulation of neuroblast proliferation; inner ear morphogenesis; hair follicle development; neural tube closure; neuron migration; establishment of planar polarity; Wnt receptor signaling pathway through beta-catenin; cell proliferation in midbrain; negative regulation of mitotic cell cycle, embryonic
Research Articles on FZD3	**1.** Genetic variants of the FZD3 gene may affect susceptibility to schizophrenia in Chinese Han and Va populations.
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