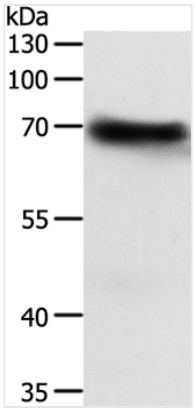
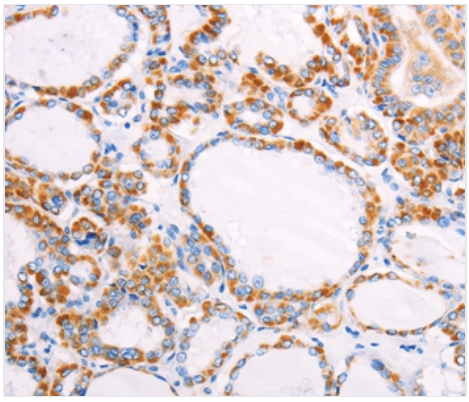
FZD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FZD4, Polyclonal Antibody
Full Product Name	FZD4 Antibody
Product Gene Name	anti-FZD4 antibody
Product Synonym Names	Fz4; EVR1; FEVR; Fz-4; FzE4; GPCR; hFz4; CD344; FZD4S
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	1 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total FZD4 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	59,881 Da
OMIM	133780
3D Structure	ModBase 3D Structure for Q9ULV1
Immunogen Type	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from internal residues of human Frizzled family receptor 4
Target Name	FZD4
Product Categories/Family for anti-FZD4 antibody	Total protein Ab
Applications Tested/Suitable for anti-FZD4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-FZD4 antibody	Western blotting: 1:500-1:2000 Immunohistochemistry: 1:25-1:100
Related Product Information for anti-FZD4 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. This protein may play a role as a positive regulator of the Wingless type MMTV integration site signaling pathway. A transcript variant retaining intronic sequence and encoding a shorter isoform has been described, however, its expression is not supported by other experimental evidence.
Other Notes	Small volumes of anti-FZD4 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 FZD4 purchase	MBS9409525 is an antibody targeting FZD4. Also known as FZD4 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Testing Data of anti-FZD4 antibody
Gel: 10%SDS-PAGE Lysates (from left to right): Mouse heart tissue Amount of lysate: 50ug per lane Primary antibody: 1/300 dilution Secondary antibody dilution: 1/8000 Exposure time: 30 seconds



Immunohistochemistry (IHC) of anti-FZD4 antibody
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using at dilution 1/25.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FZD4. It may not necessarily be applicable to this product.

NCBI GI #	22547161
NCBI GeneID	8322
NCBI Accession #	NP_036325.2
UniProt Primary Accession #	Q9ULV1
UniProt Secondary Accession #	Q14C97; Q6S9E4; A8K9Q3
UniProt Related Accession #	Q9ULV1
GenBank Nucleotide #	NM_012193.3
NCBI Official Full Name	frizzled-4
NCBI Official Synonym Full Names	frizzled class receptor 4
NCBI Official Symbol	FZD4
NCBI Official Synonym Symbols	Fz4; EVR1; FEVR; Fz-4; FzE4; GPCR; hFz4; CD344; FZD4S
UniProt Protein Name	Frizzled-4
UniProt Synonym Protein Names	FzE4; CD_antigen: CD344
UniProt Gene Name	FZD4
UniProt Synonym Gene Names	Fz-4; hFz4
UniProt Entry Name	FZD4_HUMAN
NCBI Protein Information	frizzled-4

UniProt Comments for FZD4	FZD4: Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin (CTNNB1) canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin (CTNNB1) and activation of Wnt target genes. Plays a critical role in retinal vascularization by acting as a receptor for Wnt proteins and norrin (NDP). In retina, it can be both activated by Wnt protein-binding, but also by a Wnt-independent signaling via binding of norrin (NDP), promoting in both cases beta-catenin (CTNNB1) accumulation and stimulation of LEF/TCF-mediated transcriptional programs. 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. Defects in FZD4 are the cause of vitreoretinopathy exudative type 1 (EVR1); also known as autosomal dominant familial exudative vitreoretinopathy (FEVR) or Criswick- Schepens syndrome. EVR1 is a disorder of the retinal vasculature characterized by an abrupt cessation of growth of peripheral capillaries, leading to an avascular peripheral retina. This may lead to compensatory retinal neovascularization, which is thought to be induced by hypoxia from the initial avascular insult. New vessels are prone to leakage and rupture causing exudates and bleeding, followed by scarring, retinal detachment and blindness. Clinical features can be highly variable, even within the same family. Patients with mild forms of the disease are asymptomatic, and their only disease-related abnormality is an arc of avascular retina in the extreme temporal periphery. Belongs to the G-protein coupled receptor Fz/Smo family. Protein type: Receptor, GPCR; Membrane protein, integral; GPCR, Fz/Smo family; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 11q14.2 Cellular Component: cell surface; integral to plasma membrane; integral to membrane; plasma membrane; intercellular junction Molecular Function: G-protein coupled receptor activity; Wnt-protein binding; protein binding; Wnt receptor activity; protein homodimerization activity; protein heterodimerization activity; cytokine binding; ubiquitin protein ligase binding; PDZ domain binding Biological Process: neuron differentiation; positive regulation of JNK activity; G-protein coupled receptor protein signaling pathway; Wnt receptor signaling pathway, calcium modulating pathway; Wnt receptor signaling pathway; sensory perception of sound; positive regulation of transcription, DNA-dependent; regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of transcription factor activity; Wnt receptor signaling pathway through beta-catenin; vasculogenesis; progesterone secretion; locomotion during locomotory behavior Disease: Exudative Vitreoretinopathy 1
Research Articles on FZD4	**1.** analysis of allosteric ligands of Frizzled4
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