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FZD1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2755B

Product Information

Application	WB, E
Primary Accession	Q9UP38
Other Accession	Q61090, O75084, O57329, Q8AVJ9, Q9PUK8, Q9I9M5, Q08463, O70421, O57328
Reactivity	Human
Predicted	Chicken, Mouse, Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	71158
Antigen Region	504-533

Additional Information

Gene ID	8321
Other Names	Frizzled-1, Fz-1, hFz1, FzE1, FZD1
Target/Specificity	This FZD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 504-533 amino acids from the C-terminal region of human FZD1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FZD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FZD1
Function	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 (By similarity). 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).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney

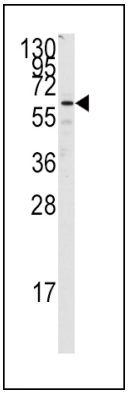
Background

Members of the 'frizzled' proten 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.The FZD1 transcript is expressed in various tissues.

References

Quelard,D., (er) PLoS ONE 3 (4), E1878 (2008)
Hardie,W.D.,Am. J. Respir. Cell Mol. Biol. 37 (3), 309-321 (2007)
Yang,L., J. Dermatol. Sci. 42 (2), 111-119 (2006)

Images



Western blot analysis of anti-FZD1 Antibody (C-term) (Cat.#AP2755b) in Jurkat cell line lysates (35ug/lane).FZD1(arrow) was detected using the purified Pab.

Citations

- Overexpression of FZD1 and CAIX are Associated with Invasion, Metastasis, and Poor-Prognosis of the Pancreatic Ductal Adenocarcinoma.
- Transcriptional Regulation of Frizzled-1 in Human Osteoblasts by Sp1.
- Functional and association analysis of frizzled 1 (FZD1) promoter haplotypes with femoral neck geometry.