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# FZD1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2755B

## Product Information

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

## Additional Information

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| **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

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| **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 |

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| | 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 |

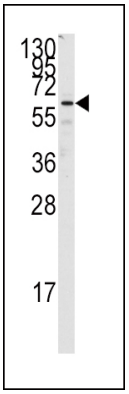
## Background

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

- Functional and association analysis of frizzled 1 (FZD1) promoter haplotypes with femoral neck geometry.
- 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.