

# FZD1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2755B

## Product Information

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

## Additional Information

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<b>Gene ID</b>	8321
<b>Other Names</b>	Frizzled-1, Fz-1, hFz1, FzE1, FZD1
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	FZD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	FZD1
<b>Function</b>	Receptor for Wnt proteins (PubMed: <a href="#">10557084</a> ). Activated by WNT3A, WNT3, WNT1 and to a lesser extent WNT2, but apparently not by WNT4, WNT5A, WNT5B, WNT6, WNT7A or WNT7B (PubMed: <a href="#">10557084</a> ). 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

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Members of the 'frizzled' protein 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.

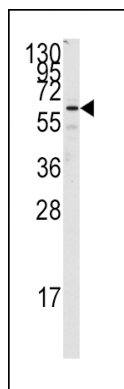
## References

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Quelard, D., (et al) 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

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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

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- [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.](#)

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