

**FZD1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2755b****Specification**

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**FZD1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UP38](#)**FZD1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 8321

**Other Names**

Frizzled-1, Fz-1, hFz1, FzE1, FZD1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2755b](/products/AP2755b) was selected from the C-term region of human FZD1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**FZD1 Antibody (C-term) Blocking Peptide - Protein Information**

Name FZD1

**Function**

Receptor for Wnt proteins (PubMed: [10557084](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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

**FZD1 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**FZD1 Antibody (C-term) Blocking Peptide - Images****FZD1 Antibody (C-term) Blocking Peptide - Background**

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.

**FZD1 Antibody (C-term) Blocking Peptide - References**

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)