

**Anti-Frizzled 1 Antibody**  
**Rabbit polyclonal antibody to Frizzled 1**  
**Catalog # AP61230****Specification**

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**Anti-Frizzled 1 Antibody - Product Information**

Application	WB, IF/IC
Primary Accession	<a href="#">O9UP38</a>
Other Accession	<a href="#">O70421</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71158

**Anti-Frizzled 1 Antibody - Additional Information****Gene ID** 8321**Other Names**

Frizzled-1; Fz-1; hFz1; FzE1

**Target/Specificity**

Recognizes endogenous levels of Frizzled 1 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)

IF/IC~~N/A

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-Frizzled 1 Antibody - Protein Information****Name** FZD1**Function**

Receptor for Wnt proteins (PubMed:<a href="http://www.uniprot.org/citations/10557084" target="\_blank">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="http://www.uniprot.org/citations/10557084" target="\_blank">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:<a href="http://www.uniprot.org/citations/10557084" target="\_blank">10557084</a>). 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:<a href="http://www.uniprot.org/citations/10557084" target="\_blank">10557084</a>). 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

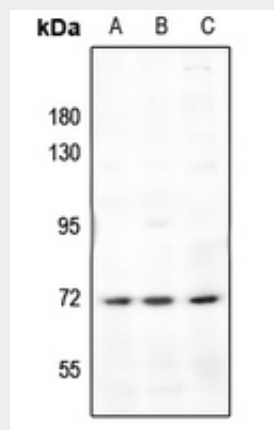
**Tissue Location**

Expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney

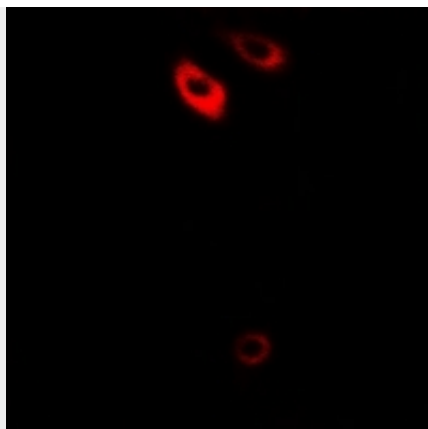
**Anti-Frizzled 1 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Frizzled 1 Antibody - Images**

Western blot analysis of Frizzled 1 expression in A549 (A), Panc1 (B), CT26 (C) whole cell lysates.



Immunofluorescent analysis of Frizzled 1 staining in HuvEc cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-Frizzled 1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Frizzled 1. The exact sequence is proprietary.