

**Anti-Frizzled Homolog 1 Picoband Antibody**  
Catalog # ABO12280**Specification****Anti-Frizzled Homolog 1 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q9UP38</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Frizzled-1(FZD1) detection. Tested with WB, IHC-P in Human.  
<br>

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Frizzled Homolog 1 Picoband Antibody - Additional Information**

**Gene ID** 8321

**Other Names**

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

**Calculated MW**

71158 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-2 µg/ml, Human, By Heat<br>Western blot, 0.1-0.6 µg/ml, Human<br>

**Subcellular Localization**

Membrane; Multi-pass membrane protein. Cell membrane ; Multi-pass membrane protein .

**Tissue Specificity**

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

**Protein Name**

Frizzled-1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Frizzled homolog 1 (369-400aa YIAGFLLIEDRVVCNDKFAEDGARTVAQG TKKE), identical to the related mouse and rat sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the G-protein coupled receptor Fz/Smo family.

**Anti-Frizzled Homolog 1 Picoband 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

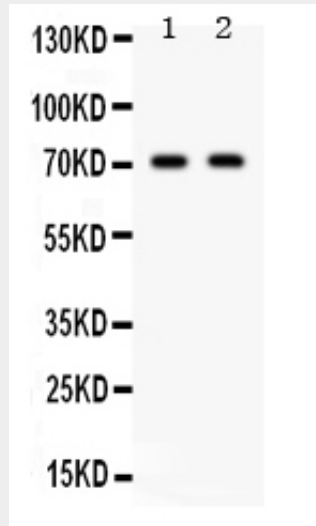
**Anti-Frizzled Homolog 1 Picoband Antibody - Protocols**

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

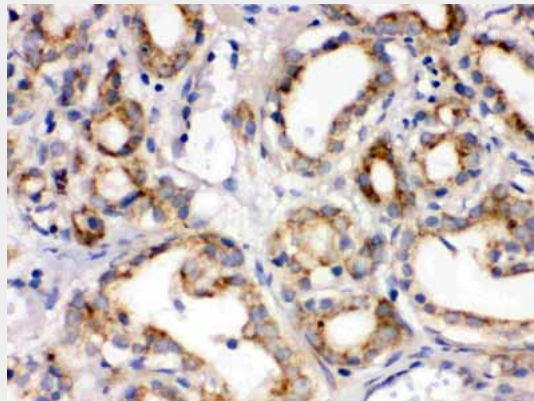
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-Frizzled Homolog 1 Picoband Antibody - Images



Anti- Frizzled homolog 1 Picoband antibody, ABO12280, Western blotting All lanes: Anti Frizzled homolog 1 (ABO12280) at 0.5ug/ml Lane 1: 22RV1 Whole Cell Lysate at 40ug Lane 2: 293T Whole Cell Lysate at 40ug Predicted bind size: 71KD Observed bind size: 71 KD



Anti- Frizzled homolog 1 Picoband antibody, ABO12280, IHC(P) IHC(P): Human Prostatic Cancer Tissue

### Anti-Frizzled Homolog 1 Picoband Antibody - Background

Frizzled-1 (Frizzled homolog 1) is a protein that in humans is encoded by the FZD1 gene. Members of the 'frizzled' gene family encode 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.