

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

Application	WB, IHC
Primary Accession	Q9UP38
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.

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
Western blot, 0.1-0.6 µg/ml, Human

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 Na₂HPO₄, 0.05mg Na₃.

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 reconstitution, 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: [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

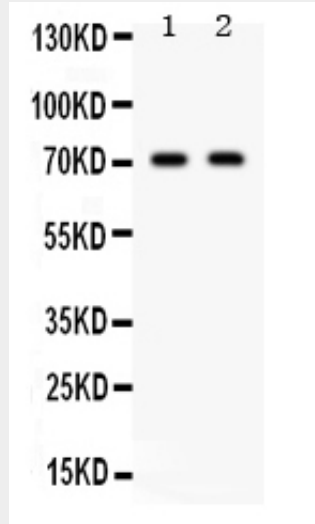
Anti-Frizzled Homolog 1 Picoband Antibody - Protocols

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

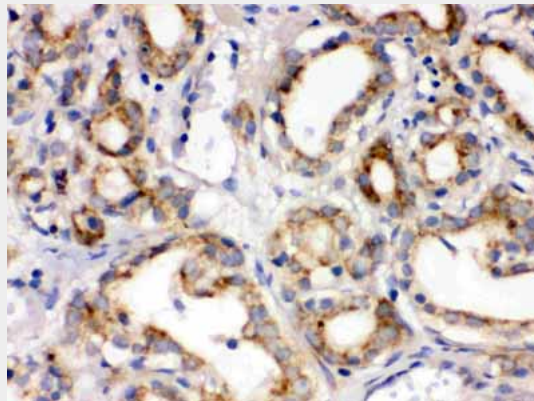
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [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.