10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Frizzled Homolog 1 Picoband Antibody

Catalog # ABO12280

Specification

Anti-Frizzled Homolog 1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
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 NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Frizzled homolog 1 (369-400aa YIAGFLLEDRVVCNDKFAEDGARTVAQG 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: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). 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

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

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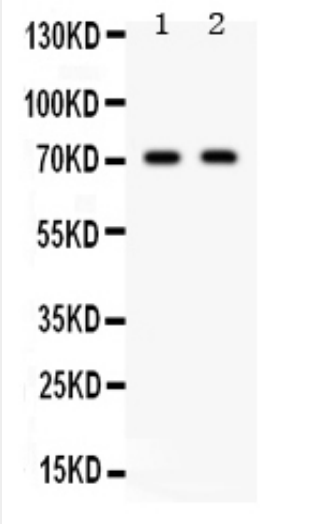
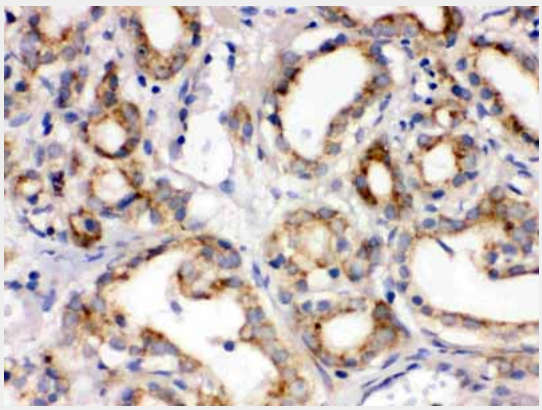
- Flow Cytomety
- Cell Culture

Anti-Frizzled Homolog 1 Picoband Antibody - Images



Anti- Frizzled homolog 1 Picoband antibody, ABO12280, Western blottingAll lanes: Anti Frizzled homolog 1 (ABO12280) at 0.5ug/mlLane 1: 22RV1 Whole Cell Lysate at 40ugLane 2: 293T Whole Cell Lysate at 40ugPredicted bind size: 71KDObserved 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 signalingproteins. 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.