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Anti-Frizzled Homolog 1 Picoband Antibody

Catalog # ABO12280

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.

Additional Information

Gene ID	8321
Other Names	Frizzled-1, Fz-1, hFz1, FzE1, FZD1
Calculated MW	71158
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-2 □g/ml, Human, By Heat Western blot, 0.1-0.6 □g/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.
Source	Eukaryota
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.

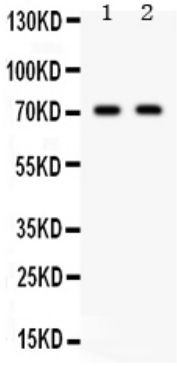
Protein Information

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

Background

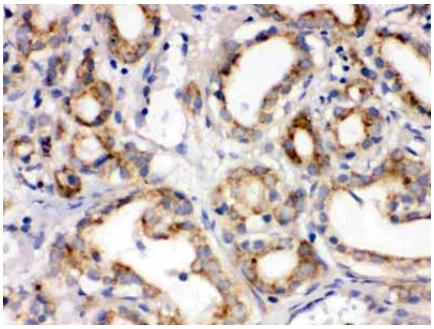
Frizzled-1 (Frizzled homolog 1) is a protein that in humans is encoded by the FZD1 gene. Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signalingproteins. The FZD1 protein contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, 7 transmembrane domains, and a C-terminal PDZ domain-binding motif. The FZD1 transcript is expressed in various tissues.

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



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