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Anti-Frizzled 1/2/7 Antibody

Catalog # AP53848

Product Information

Application	WB, IF/IC
Primary Accession	Q9UP38
Other Accession	Q14332, O75084
Reactivity	Human, Mouse, Rat, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71158

Additional Information

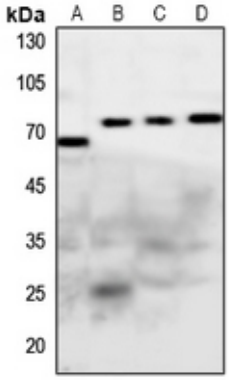
Gene ID	8321
Other Names	Frizzled-7; Fz-7; hFz7; FzE3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Frizzled 1/2/7. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

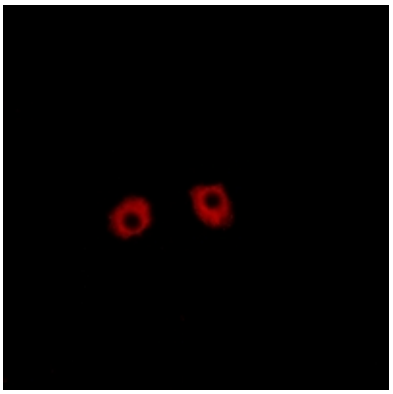
Name	FZD1
Function	Receptor for Wnt proteins (PubMed: 10557084). Activated by WNT3A, WNT3, WNT1 and to a lesser extent WNT2, but apparently not by WNT4, WNT5A, WNT5B, WNT6, WNT7A or WNT7B (PubMed:10557084). Contradictory results showing activation by WNT7B have been described for mouse (By similarity). 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

Images



Western blot analysis of Frizzled 1/2/7 expression in Hela (A), mouse heart (B), rat heart (C), rat kidney (D) whole cell lysates. (Predicted band size: 71; 63 kD; Observed band size: 64; 71 kD)



Immunofluorescent analysis of Frizzled 1/2/7 staining in MCF7 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 hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.