

# Frizzled 8 Rabbit pAb

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Catalog # AP55094

## Product Information

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| <b>Application</b>                      | WB   |
| <b>Primary Accession</b>                | <a href="#">Q9H461</a>   |
| <b>Reactivity</b>                       | Human  |
| <b>Predicted</b>                        | Mouse, Rat   |
| <b>Host</b>                             | Rabbit   |
| <b>Clonality</b>                        | Polyclonal   |
| <b>Calculated MW</b>                    | 73300  |
| <b>Physical State</b>                   | Liquid   |
| <b>Immunogen</b>                        | KLH conjugated synthetic peptide derived from human Frizzled 8   |
| <b>Epitope Specificity</b>              | 61-160/694   |
| <b>Isotype</b>                          | IgG  |
| <b>Purity</b>                           | affinity purified by Protein A   |
| <b>Buffer</b>                           | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  |
| <b>SUBCELLULAR LOCATION</b>             | Membrane. Golgi apparatus. Cell membrane. Colocalizes with GOPC at the Golgi apparatus.  |
| <b>SIMILARITY</b>                       | Belongs to the G-protein coupled receptor Fz/Smo family. Contains 1 FZ (frizzled) domain.  |
| <b>Post-translational modifications</b> | Ubiquitinated by ZNRF3, leading to its degradation by the proteasome.  |
| <b>Important Note</b>                   | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.  |
| <b>Background Descriptions</b>          | The frizzled gene, originally identified in <i>Drosophila melanogaster</i> , is involved in the development of tissue polarity. The mammalian homolog of frizzled, as well as several secreted mammalian frizzled-related proteins (FRPs), have been described. The frizzled proteins contain seven transmembrane domains, a cysteine-rich domain in the extracellular region and a carboxy-terminal Ser/Thr-xxx-Val motif. They function as receptors for Wnt and are generally coupled to G proteins. The cysteine-rich domain of frizzled-8 blocks endogenous Wnts and the effects of Wnt-1 and Wnt-5 on proliferation. The mouse frizzled-8 gene, which encodes a Wnt receptor, is a potent cancer-associated activator of the Beta-catenin-TCF pathway. The frizzled-8 gene contains no introns. Frizzled-8 mRNA has been detected in fetal brain and kidney, and also in adult pancreas, skeletal muscle, kidney and heart. Frizzled is highly expressed in HeLa S3 (cervical uterus cancer) cells and A549 lung cancer cells. |

## Additional Information

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|--------------------|------------------------------|
| <b>Gene ID</b>     | 8325                         |
| <b>Other Names</b> | Frizzled-8, Fz-8, hFz8, FZD8 |

|                           |   |
|---------------------------|---|
| <b>Target/Specificity</b> | Most abundant in fetal kidney, followed by brain and lung. In adult tissues, expressed in kidney, heart, pancreas and skeletal muscle.  |
| <b>Dilution</b>           | WB=1:500-2000   |
| <b>Storage</b>            | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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|--------------------------|---|
| <b>Name</b>              | FZD8  |
| <b>Function</b>          | Receptor for Wnt proteins. Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalosomes. The beta-catenin canonical 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. 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. Coreceptor along with RYK of Wnt proteins, such as WNT1. |
| <b>Cellular Location</b> | Membrane; Multi-pass membrane protein. Golgi apparatus. Cell membrane; Multi-pass membrane protein. Note=Colocalizes with GOPC at the Golgi apparatus.  |
| <b>Tissue Location</b>   | Most abundant in fetal kidney, followed by brain and lung. In adult tissues, expressed in kidney, heart, pancreas and skeletal muscle   |

## Background

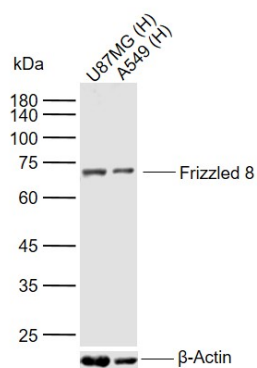
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## Images

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Sample:  
Lane 1: Human U87MG cell lysates  
Lane 2: Human A549 cell lysates  
Primary: Anti-Frizzled 8 (AP55094) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution



Predicted band size: 70 kDa  
Observed band size: 70 kDa

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