

**Product Name: Frizzled-1 Rabbit Polyclonal Antibody****Catalog #: APRab11139**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Rabbit polyclonal Antibody  |
| <b>Host</b>          | Rabbit  |
| <b>Application</b>   | WB,ICC/IF,ELISA   |
| <b>Reactivity</b>    | Human,Rat,Mouse,Rice  |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | IgG   |
| <b>Clonality</b>     | Polyclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.                       |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b>  | Affinity purification   |

**Application**

|                         |  |
|-------------------------|--|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000 |
| <b>Molecular Weight</b> | 71kDa  |

**Antigen Information**

|                          |  |
|--------------------------|--|
| <b>Gene Name</b>         | FZD1   |
| <b>Alternative Names</b> | FZD1; Frizzled-1; Fz-1; hFz1; FzE1   |
| <b>Gene ID</b>           | 8321.0   |
| <b>SwissProt ID</b>      | Q9UP38   |
| <b>Immunogen</b>         | The antiserum was produced against synthesized peptide derived from human FZD1. AA range:15-64 |

**Background**

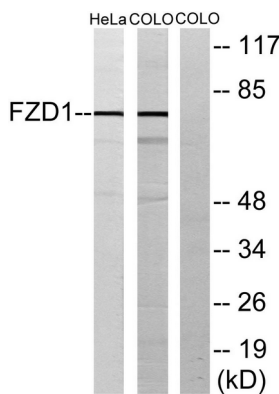
frizzled class receptor 1(FZD1) Homo sapiens      Members of the 'frizzled' gene family encode 7-transmembrane domain

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. [provided by RefSeq, Jul 2008],domain:Lys-Thr-X-X-X-Trp motif is involved in the activation of the Wnt/beta-catenin signaling pathway.,domain:The FZ domain is involved in binding with Wnt ligands.,function:Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which 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. Activated by Wnt3A, Wnt3, Wnt1 and to a lesser extent Wnt2, but not by Wnt4, Wnt5A, Wnt5B, Wnt6, Wnt7A or Wnt7B.,similarity:Belongs to the G-protein coupled receptor Fz/Smo family.,similarity:Contains 1 FZ (frizzled) domain.,tissue specificity:Expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney.,

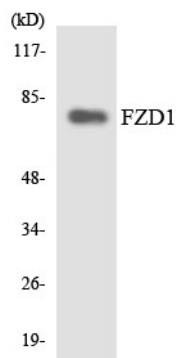
## Research Area

WNT;WNT-T CELLMelanogenesis;Pathways in cancer;Colorectal cancer;Basal cell carcinoma;

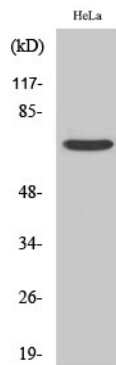
## Image Data



Western blot analysis of lysates from HeLa and COLO205 cells, using FZD1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using FZD1 antibody.



Western Blot analysis of various cells using Frizzled-1 Polyclonal Antibody