



## Rabbit Anti-Frizzled 1/Wnt receptor antibody

SL6148R

<b>Product Name:</b>	Frizzled 1/Wnt receptor
<b>Chinese Name:</b>	Wnt信号受体蛋白/Frizzled homolog 1抗体
<b>Alias:</b>	Frizzled 1; Frizzled-1; Frizzled homolog 1 (Drosophila); Fz1; FZD1; FzE1; Wnt receptor; FZD1_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/testIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	63/71kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Frizzled 1:501-600/647
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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 GSK3 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 GSK3 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.

**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.

**Subcellular Location:**

Membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein (By similarity).

**Tissue Specificity:**

Expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney.

**Similarity:**

Belongs to the G-protein coupled receptor Fz/Smo family.  
Contains 1 FZ (frizzled) domain.

**SWISS:**

Q13467

**Gene ID:**

7855

**Database links:**

[Entrez Gene: 7855](#)Human

[Entrez Gene: 14367](#)Mouse

[Entrez Gene: 317674](#)Rat

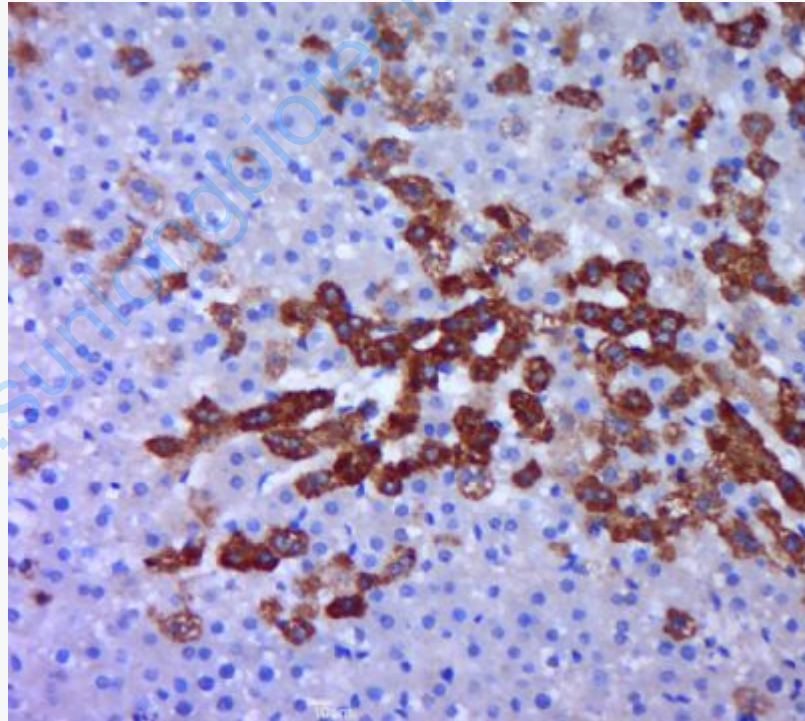
[Omim: 601723](#)Human

[SwissProt: Q13467](#)Human  
[SwissProt: Q9EQD0](#)Mouse  
[SwissProt: Q8CHL0](#)Rat  
[Unigene: 17631](#)Human  
[Unigene: 150813](#)Mouse  
[Unigene: 470210](#)Mouse  
[Unigene: 24792](#)Rat

**Important Note:**

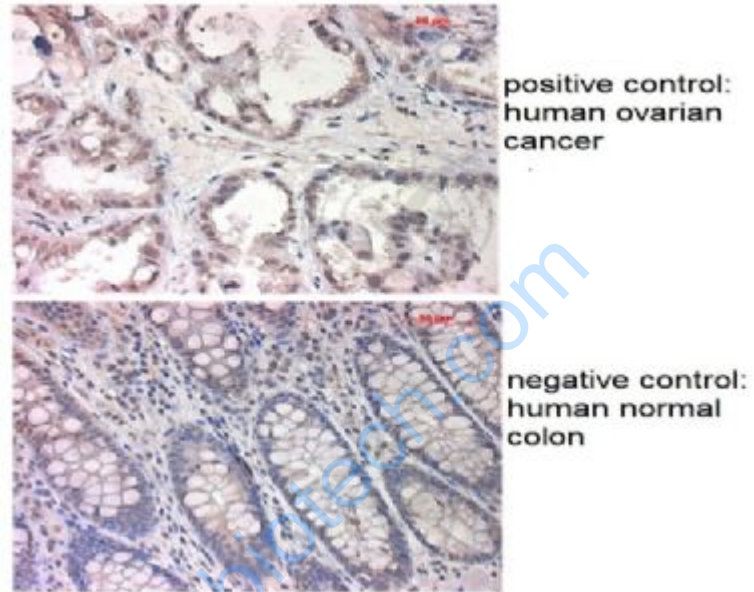
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**Picture:**

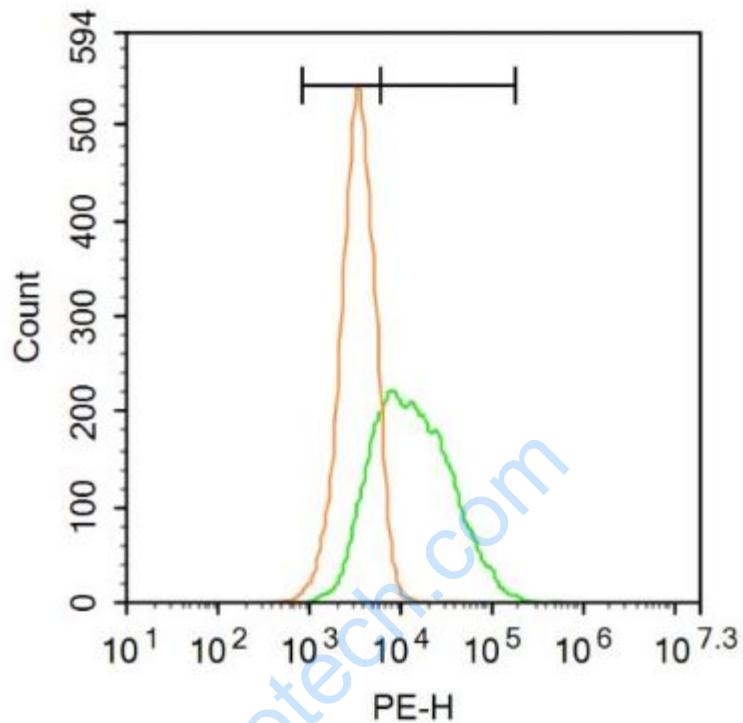


Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Frizzled 1) Polyclonal Antibody,

Unconjugated (SL6148R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Images provided by the Independent Validation Program (badge number 029757)  
Formalin-fixed and paraffin embedded human ovarian cancer labeled with Rabbit Anti-Wnt receptor Polyclonal Antibody (SL6148R) at 1:250 overnight at room temperature followed by conjugation to secondary antibody. Diffuse, low-level staining was observed in positive and negative control tissues.



Blank control: A549.

Primary Antibody (green line): Rabbit Anti-Frizzled 1 antibody (SL6148R)

Dilution:  $3\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution:  $3\mu\text{g} / \text{test}$ .

#### Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.