



Rabbit Anti-Frizzled 7/FITC Conjugated antibody

SL5125R-FITC

Product Name:	Anti-Frizzled 7/FITC
Chinese Name:	FITC标记的卷曲蛋白FZD7抗体
Alias:	Frizzled drosophila homolog of 7; Frizzled homolog 7; Frizzled7; Fz 7; Fz7; FZD 7; FZD7; FzE 3; FZE3; Frizzled 3; Frizzled3; Frizzled-3; hFz 7; hFz7; Homolog of Drosophila Frizzled 7.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Guinea Pig,
Applications:	Flow-Cyt=1:50-200IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	60kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Frizzled 7
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
Product Detail:	background: Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The Frizzled 7 protein contains an N-terminal signal sequence, 10 cysteine residues typical of the cysteine-rich extracellular domain of Frizzled family members, 7 putative transmembrane domains, and an intracellular C-terminal tail with a PDZ domain-binding motif. Frizzled 7 gene expression may downregulate APC function and enhance beta-catenin-mediated signals in poorly

differentiated human esophageal carcinomas. Frizzled 7 expression has been reported in brain, gastrointestinal tract, heart, fetal kidney, fetal lung, placenta, skeletal muscle, and various cancers. ESTs have been isolated from a wide variety of normal and cancer libraries.

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.

Subunit:

Interacts with MAGI3 and DVL1.

Subcellular Location:

Membrane; Multi-pass membrane protein.

Tissue Specificity:

High expression in adult skeletal muscle and fetal kidney, followed by fetal lung, adult heart, brain, and placenta. Specifically expressed in squamous cell esophageal carcinomas.

Similarity:

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

Database links:

[Entrez Gene: 8324](#) Human

[Entrez Gene: 374060](#) Chicken

[Entrez Gene: 524255](#) Cow

[Entrez Gene: 488478](#) Dog

[Entrez Gene: 14369](#) Mouse

[Entrez Gene: 301440](#) Rat

[GenBank: NP_003498.1](#) Human

[Oimim: 603410](#) Human

[SwissProt: O57329](#) Chicken

[SwissProt: O75084](#) Human

[SwissProt: Q61090](#) Mouse

[Unigene: 173859](#) Human

[Unigene: 297906](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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