



## frizzled-1 (W29): sc-74018

### BACKGROUND

The frizzled gene, originally identified in *Drosophila melanogaster*, 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 frizzled-1 gene is expressed in adult heart, placenta, lung, kidney, pancreas, prostate and ovary and in fetal lung and kidney.

### REFERENCES

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2. Yang-Snyder, J., et al. 1996. A frizzled homolog functions in a vertebrate Wnt signaling pathway. *Curr. Biol.* 6: 1302-1306.
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4. Finch, P.W., et al. 1997. Purification and molecular cloning of a secreted, frizzled-related antagonist of Wnt action. *Proc. Natl. Acad. Sci. USA* 94: 6770-6775.
5. Melkonyan, H.S., et al. 1997. SARPs: a family of secreted apoptosis-related proteins. *Proc. Natl. Acad. Sci. USA* 94: 13636-13641.
6. Sagara, N., et al. 1998. Molecular cloning, differential expression, and chromosomal localization of human frizzled-1, frizzled-2, and frizzled-7. *Biochem. Biophys. Res. Commun.* 252: 117-122.
7. Tanaka, S., et al. 1998. A novel frizzled gene identified in human esophageal carcinoma mediates APC/ $\beta$ -catenin signals. *Proc. Natl. Acad. Sci. USA* 95: 10164-10169.

### CHROMOSOMAL LOCATION

Genetic locus: Fzd1 (mouse) mapping to 5 A1.

### SOURCE

frizzled-1 (W29) is a rat monoclonal antibody raised against the extracellular domain of frizzled-1 of mouse origin.

### PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> in 1.0 ml PBS with < 0.1% sodium azide and protein stabilizer.

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### APPLICATIONS

frizzled-1 (W29) is recommended for detection of frizzled-1 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for frizzled-1 siRNA (m): sc-39978, frizzled-1 shRNA Plasmid (m): sc-39978-SH and frizzled-1 shRNA (m) Lentiviral Particles: sc-39978-V.

Molecular Weight of frizzled-1: 71 kDa.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.