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**anti-Frizzled**

Cat #: HM1156  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

The frizzled gene identified in *Drosophila melanogaster* to be involved in the development of tissue polarity. The mammalian homolog related proteins, FRP-1 (also designated SARP2), FRP-2 (also designated SARP1), FRP-3, FRP-4 and SARP3 (also designated FRP-5) have been identified. 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, including adult heart, placenta, lung, kidney, pancreas, prostate and ovary and in fetal lung and kidney.

**SPECIFICITY**

This antibody reacts with frizzled-1 and frizzled-2 of mouse, rat and human origin by Western blotting and immunohistochemistry; non cross-reactive with FRP-1, FRP-2, FRP-3 or SARP3.

**IMMUNOGEN**

A recombinant Frizzled of human origin.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCE**

1. Wang, Y., Macke, J.P., Abella, B.S., Andreasson K., Worley P., Gilbert D.J., Copeland, N.G., Jenkins, N.A., and Nathans, J. 1996. A large family of putative transmembrane receptors homologous to the product of the *Drosophila* tissue polarity gene frizzled. *J. Biol. Chem.* 271: 4468-4476. 8626800.
2. Rattner, A., Hsieh, J.C., Smallwood, P.M., Gilbert, D.J., Copeland, N.G., Jenkins, N.A., and Nathans, J. 1997. A family of secreted proteins contains homology to the cysteine-rich ligandbinding domain of frizzled receptors. *Proc. Natl. Acad. Sci. USA* 94: 2859-2863. 9096311
3. Melkonyan, H.S., Chang, W.C., Shapiro, J.P., Mahadevappa, M., Fitzpatrick, P.A., Kiefer, M.C., Tomei, L.D., and Umansky, S.R. 1997. SARPs: a family of secreted apoptosis-related proteins. *Proc. Natl. Acad. Sci. USA* 94: 13636-13641. 9391078.
4. Yang-Snyder, J., Miller, J.R., Brown, J.D., Lai, C.J., and Moon, R.T. 1996. A frizzled homolog functions in a vertebrate Wnt signaling pathway. *Curr. Biol.* 6: 1302-1306. 8939578.
5. Finch, P.W., He, X., Kelley, M.J., Uren, A., Schaudies, R.P., Popescu, N.C., Rudikoff, S., Aaronson, S.A., Varmus, H.E., and Rubin, J.S. 1997. Purification and molecular cloning of a secreted, Frizzled-related antagonist of Wnt action. *Proc. Natl. Acad. Sci. USA* 94: 6770-6775. 9192640.

6. Sagara, N., Toda, G., Hirai, M., Terada, M., and Katoh, M. 1998. Molecular cloning, differential expression, and chromosomal localization of human frizzled-1, frizzled-2, and frizzled-7. *Biochem. Biophys. Res. Commun.* 252: 117-122. 9813155.
7. Gazit, A., Yaniv, A., Bafico, A., Pramila, T., Igarashi, M., Kitajewski, J. and Aaronson, S.A. (1999) Human frizzled 1 interacts with transforming Wnts to transduce a TCF dependent transcriptional response. *Oncogene* 18, 5959-5966.
8. Hering, H. and Sheng, M. (2002) Direct interaction of Frizzled-1, -2, -4, and -7 with PDZ domains of PSD-95. *FEBS Lett.* 521, 185-189.

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