SANTA CRUZ BIOTECHNOLOGY, INC.

frizzled-5 (S-12): sc-23225

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 proteinsins. The frizzled-5 protein is believed to be the receptor for the Wnt5A ligand.

REFERENCES

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2. 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.
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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. Commum. 252: 117-122.
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8. Leimeister, C., Bach, A. and Gessler, M. 1998. Developmental expression patterns of mouse sFRP genes encoding members of the secreted frizzled related protein family. Mech. Dev. 75: 29-42.

CHROMOSOMAL LOCATION

Genetic locus: Fzd5 (mouse) mapping to 1 C2.

SOURCE

frizzled-5 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of frizzled-5 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-23225 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

frizzled-5 (S-12) is recommended for detection of frizzled-5 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for frizzled-5 siRNA (m): sc-39986, frizzled-5 shRNA Plasmid (m): sc-39986-SH and frizzled-5 shRNA (m) Lentiviral Particles: sc-39986-V.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

1. Kolodkin, M.H. and Auger, A.P. 2011. Sex difference in the expression of DNA methyltransferase 3a in the rat amygdala during development. J. Neuroendocrinol. 23: 577-583.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.