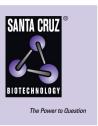
SANTA CRUZ BIOTECHNOLOGY, INC.

FRP-2 (C-18): sc-7426



BACKGROUND

The frizzled gene, originally identified in Drosophila melanogaster, was shown to be involved in the development of tissue polarity. The mammalian homolog of frizzled, as well as several secreted, mammalian, frizzled-related proteins such as FRP-1 (also designated SARP2), FRP-2 (also designated SARP1), FRP-3, FRP-4 and SARP3 (also designated FRP-5), have been identified. The frizzled proteins contain seven transmembrane domains and a cysteine-rich domain in the extra carboxy-terminal Ser/Thr-xxx-Val motif, and they function as receptors for Wnt. The frizzled-1 gene maps to human chromosome 7q21 and is expressed in adult heart, placenta, lung, kidney, pancreas, prostate and ovary, as well as in fetal lung and kidney. Frizzled-2 is expressed in adult heart and fetal brain, lung and kidney. The frizzled-related proteins FRP-1, FRP-2, FRP-3, FRP-4 and SARP3 are secreted proteins that contain regions of homology to the cysteine-rich, ligand-binding domain of frizzled and a conserved, hydrophilic carboxy-terminus. The gene encoding human SARP3 maps to chromosome 4q31.3 and is expressed in retinal pigment epithelium (RPE) and pancreas, while expression of FRP-1, 2 and 4 is high in developing tissues. The FRPs/SARPs are involved in the Wnt signaling pathway by regulating the intracellular levels of β -catenin.

CHROMOSOMAL LOCATION

Genetic locus: SFRP2 (human) mapping to 4q31.3; Sfrp2 (mouse) mapping to 3 E3.

SOURCE

FRP-2 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FRP-2 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-7426 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FRP-2 (C-18) is recommended for detection of FRP-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

FRP-2 (C-18) is also recommended for detection of FRP-2 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for FRP-2 siRNA (h): sc-40000, FRP-2 siRNA (m): sc-40001, FRP-2 shRNA Plasmid (h): sc-40000-SH, FRP-2 shRNA Plasmid (m): sc-40001-SH, FRP-2 shRNA (h) Lentiviral Particles: sc-40000-V and FRP-2 shRNA (m) Lentiviral Particles: sc-40001-V.

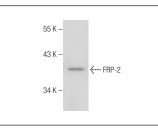
Molecular Weight of FRP-2: 37 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, MCF7 whole cell lysate: sc-2206 or U-87 MG cell lysate: sc-2411.

STORAGE

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

DATA



FRP-2 (C-18): sc-7426. Western blot analysis of FRP-2 expression in U-87 MG whole cell lysate.

SELECT PRODUCT CITATIONS

- 1. Jones, S.E., et al. 2000. Altered expression of secreted frizzled-related protein-2 in retinitis pigmentosa retinas. Invest. Ophthalmol. Vis. Sci. 41: 1297-1301.
- 2. Tebar, M., et al. 2001. Expression of TCF/LEF and sFRP and localization of β -catenin in the developing mouse lung. Mech. Dev. 109: 437-440.
- Hou, X., et al. 2004. Canonical Wnt signaling is critical to estrogen-mediated uterine growth. Mol. Endocrinol. 18: 3035-3049.
- Fujino, R.S., et al. 2006. Spermatogonial cell-mediated activation of an IκB-ζ-independent nuclear factor-κB pathway in Sertoli cells induces transcription of the lipocalin-2 gene. Mol. Endocrinol. 20: 904-915.
- Kasaai, B., et al. 2012. Spatial and temporal localization of WNT signaling proteins in a mouse model of distraction osteogenesis. J. Histochem. Cytochem. 60: 219-228.

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.

MONOS Satisfation Guaranteed