

frizzled-7 (F-13): sc-31063

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: 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, a cysteine-rich domain in the extracellular region and a carboxy terminal Ser/Thr-xxx-Val motif. They function as receptors for Wnt. frizzled-7 has a Lys-Thr-X-X-Trp motif which is involved in the activation of the Wnt/ β -catenin signaling pathway. frizzled-7 is an integral membrane protein showing a high expression in adult skeletal muscle, fetal kidney, fetal lung, adult heart, brain and placenta. It is specifically expressed in squamous cell esophageal carcinomas.

CHROMOSOMAL LOCATION

Genetic locus: FZD7 (human) mapping to 2q33.1; Fzd7 (mouse) mapping to 1 C13.

SOURCE

frizzled-7 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of frizzled-7 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-31060 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

frizzled-7 (F-13) is recommended for detection of frizzled-7 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

frizzled-7 (G-13) is also recommended for detection of frizzled-7 in additional species, including canine and bovine.

Suitable for use as control antibody for frizzled-7 siRNA (h): sc-39990, frizzled-7 siRNA (m): sc-39991, frizzled-7 shRNA Plasmid (h): sc-39990-SH, frizzled-7 shRNA Plasmid (m): sc-39991-SH, frizzled-7 shRNA (h) Lentiviral Particles: sc-39990-V and frizzled-7 shRNA (m) Lentiviral Particles: sc-39991-V.

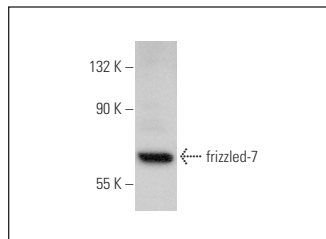
Molecular Weight of frizzled-7: 92 kDa.

Positive Controls: mouse brain extract: sc-2253, L8 cell lysate: sc-3807 or human cerebral cortex tissue extract.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



frizzled-7 (F-13): sc-31063. Western blot analysis of frizzled-7 expression in human cerebral cortex tissue extract.

STORAGE

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

PROTOCOLS

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


 MONOS
Satisfaction
Guaranteed

Try **frizzled-7 (4D9): sc-293261**, our highly recommended monoclonal alternative to frizzled-7 (F-13).