

SARP3 (E-19): sc-14331

BACKGROUND

The frizzled gene was originally identified in *Drosophila melanogaster* and was shown to be involved in the development of tissue polarity. The mammalian homolog of frizzled, as well as several mammalian frizzled-related proteins, FRP-1 (also designated SARP2), FRP-2 (also designated SARP1), FRP-3 and SARP3 (also designated FRP-5) have been identified. Frizzled is a transmembrane protein that functions as a receptor for Wnt. The frizzled related proteins FRP-1, FRP-2, FRP-3 and SARP3 are secreted proteins that contain regions of homology to the cysteine-rich ligand-binding domain of frizzled. The FRPs/SARPs have also been shown to be involved in the Wnt signaling pathway by regulating the intracellular levels of β -catenin.

CHROMOSOMAL LOCATION

Genetic locus: SFRP5 (human) mapping to 10q24.2; Sfrp5 (mouse) mapping to 19 C3.

SOURCE

SARP3 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SARP3 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-14331 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

SARP3 (E-19) is recommended for detection of SARP3 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).

SARP3 (E-19) is also recommended for detection of SARP3 in additional species, including bovine and porcine.

Suitable for use as control antibody for SARP3 siRNA (h): sc-40004, SARP3 siRNA (m): sc-40005, SARP3 shRNA Plasmid (h): sc-40004-SH, SARP3 shRNA Plasmid (m): sc-40005-SH, SARP3 shRNA (h) Lentiviral Particles: sc-40004-V and SARP3 shRNA (m) Lentiviral Particles: sc-40005-V.

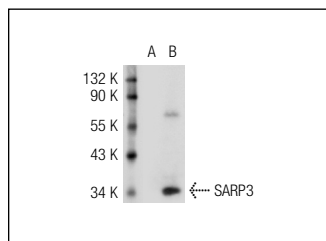
Molecular Weight of SARP3: 40 kDa.

Positive Controls: SARP3 (h): 293T Lysate: sc-116119.

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



SARP3 (E-19): sc-14331. Western blot analysis of SARP3 expression in non-transfected: sc-117752 (A) and human SARP3 transfected: sc-116119 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Mori, H., et al. 2012. Secreted frizzled-related protein 5 suppresses adipocyte mitochondrial metabolism through WNT inhibition. *J. Clin. Invest.* 122: 2405-2416.

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.


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Try **SARP3 (H-6): sc-374397**, our highly recommended monoclonal alternative to SARP3 (E-19).