

SARP3 (h): 293T Lysate: sc-116119

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.

REFERENCES

1. Wang, Y., et al. 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.
2. Yang-Snyder, J., et al. 1996. A frizzled homolog functions in a vertebrate Wnt signaling pathway. Curr. Biol. 6: 1302-1306.
3. Rattner, A., et al. 1997. A family of secreted proteins contains homology to the cysteine-rich ligand-binding domain of frizzled receptors. Proc. Natl. Acad. Sci. USA 94: 2859-2863.
4. Finch, P.W., et al. 1997. Purification and molecular cloning of a secreted, frizzled-related antagonist of Wnt action. Proc. Natl. Acad. Sci. USA 94: 6770-6775.

CHROMOSOMAL LOCATION

Genetic locus: SFRP5 (human) mapping to 10q24.2.

PRODUCT

SARP3 (h): 293T Lysate represents a lysate of human SARP3 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

SARP3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SARP3 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SARP3 (H-6): sc-374397 is recommended as a positive control antibody for Western Blot analysis of enhanced human SARP3 expression in SARP3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

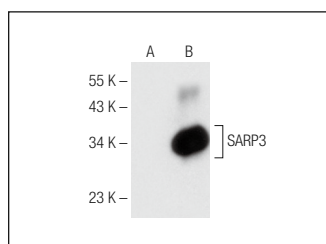
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

DATA



SARP3 (H-6): sc-374397. Western blot analysis of SARP3 expression in non-transfected: sc-117752 (A) and human SARP3 transfected: sc-116119 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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