

SF-1 (h): 293T Lysate: sc-158953

BACKGROUND

Steroidogenic factor-1 (SF-1), also known as NR5A1, regulates multiple genes involved in the adrenal and gonadal development and in the biosynthesis of a variety of hormones, including adrenal and gonadal steroids, anti-Müllerian hormone (AMH), and gonadotropins. SF-1 belongs to the fushi tarazu factor-1 (FTZ-F1) subfamily of orphan nuclear receptors. In the adult ovary, SF-1 localizes to theca/interstitial cells.

REFERENCES

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2. Falender, A.E., et al. 2003. Differential expression of steroidogenic factor-1 and FTF/LRH-1 in the rodent ovary. *Endocrinology* 144: 3598-610.
3. Parker, K.L. 2004. Tissue-specific knockouts of steroidogenic factor 1. *Endocr. Res.* 30: 855.
4. Jameson, J.L. 2004. Of mice and men: The tale of steroidogenic factor-1. *J. Clin. Endocrinol. Metab.* 89: 5927-5929.
5. Hasegawa, T., et al. 2004. Testicular dysgenesis without adrenal insufficiency in a 46,XY patient with a heterozygous inactive mutation of steroidogenic factor-1. *J. Clin. Endocrinol. Metab.* 89: 5930-5935.
6. Chen, W.Y., et al. 2004. SUMO modification of repression domains modulates function of nuclear receptor 5A1 (steroidogenic factor-1). *J. Biol. Chem.* 279: 38730-38735.
7. Li, Y., et al. 2005. Crystallographic identification and functional characterization of phospholipids as ligands for the orphan nuclear receptor steroidogenic factor-1. *Mol. Cell* 17: 491-502.
8. Wilson, M.J., et al. 2005. The transcription factors steroidogenic factor-1 and Sox9 regulate expression of vanin-1 during mouse testis development. *J. Biol. Chem.* 280: 5917-5923.

CHROMOSOMAL LOCATION

Genetic locus: NR5A1 (human) mapping to 9q33.3.

PRODUCT

SF-1 (h): 293T Lysate represents a lysate of human SF-1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

SF-1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SF-1 antibodies. Recommended use: 10-20 µl per lane.

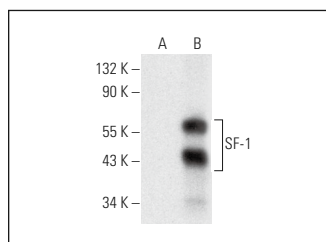
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SF-1 (G-12): sc-398202 is recommended as a positive control antibody for Western Blot analysis of enhanced human SF-1 expression in SF-1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

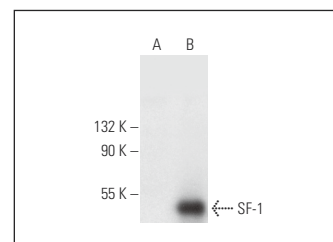
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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.

DATA



SF-1 (G-12): sc-398202. Western blot analysis of SF-1 expression in non-transfected: sc-117752 (A) and human SF-1 transfected: sc-158953 (B) 293T whole cell lysates.



SF-1 (A-1): sc-393592. Western blot analysis of SF-1 expression in non-transfected: sc-117752 (A) and human SF-1 transfected: sc-158953 (B) 293T whole cell lysates.

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.

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.