

SF-1 (H-60): sc-28740

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

1. Li, M., et al. 1998. Cloning and characterization of a novel human hepatocyte transcription factor, hB1F, which binds and activates enhancer II of hepatitis B virus. *J. Biol. Chem.* 273: 29022-29031.
2. Falender, A.E., et al. 2003. Differential expression of steroidogenic factor-1 and FTF/LRH-1 in the rodent ovary. *Endocrinology* 144: 3598-3610.

CHROMOSOMAL LOCATION

Genetic locus: NR5A1 (human) mapping to 9q33.3; Nr5a1 (mouse) mapping to 2 B.

SOURCE

SF-1 (H-60) is a rabbit polyclonal antibody raised against amino acids 201-260 mapping within an internal region of SF-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-28740 X, 200 µg/0.1 ml.

APPLICATIONS

SF-1 (H-60) is recommended for detection of SF-1 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). SF-1 (H-60) is also recommended for detection of SF-1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for SF-1 siRNA (h): sc-37901, SF-1 siRNA (m): sc-37902, SF-1 shRNA Plasmid (h): sc-37901-SH, SF-1 shRNA Plasmid (m): sc-37902-SH, SF-1 shRNA (h) Lentiviral Particles: sc-37901-V and SF-1 shRNA (m) Lentiviral Particles: sc-37902-V.

SF-1 (H-60) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of SF-1: 53 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or THP-1 cell lysate: sc-2238.

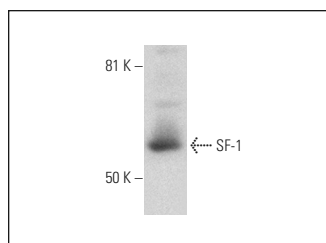
STORAGE

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

RESEARCH USE

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

DATA



SF-1 (H-60): sc-28740. Western blot analysis of SF-1 expression in THP-1 whole cell lysate.

SELECT PRODUCT CITATIONS

1. Kuhl, A.J., et al. 2007. CCAAT/enhancer binding protein β , but not steroidogenic factor-1, modulates the phthalate-induced dysregulation of rat fetal testicular steroidogenesis. *Endocrinology* 148: 5851-5864.
2. Hoivik, E.A., et al. 2008. Deoxyribonucleic acid methylation controls cell type-specific expression of steroidogenic factor 1. *Endocrinology* 149: 5599-5609.
3. Kim, S.M., et al. 2010. Regulation of mouse steroidogenesis by WHISTLE and JMJD1C through histone methylation balance. *Nucleic Acids Res.* 38: 6389-6403.
4. Suresh, P.S. and Medhamurthy, R. 2012. Luteinizing hormone regulates inhibin- α subunit expression through multiple signaling pathways involving steroidogenic factor-1 and β -catenin in the macaque corpus luteum. *Growth Factors* 30: 192-206.
5. Das, S., et al. 2013. Effect of phenol on ovarian secretion of 17 β -estradiol in common carp *Cyprinus carpio*. *Arch. Environ. Contam. Toxicol.* 65: 132-141.
6. Yan, Y.E., et al. 2014. Prenatal nicotinic exposure suppresses fetal adrenal steroidogenesis via steroidogenic factor 1 (SF-1) deacetylation. *Toxicol. Appl. Pharmacol.* 277: 231-241.

PROTOCOLS

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

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Try **SF-1 (A-1): sc-393592** or **SF-1 (G-12): sc-398202**, our highly recommended monoclonal alternatives to SF-1 (H-60).