SANTA CRUZ BIOTECHNOLOGY, INC.

# SF-1 (P-17): sc-10975

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

Steroidogenic factor 1 (SF-1) 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-Mullerian 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: 3598-610.
3. Parker, K.L. 2004. Tissue-specific knockouts of steroidogenic factor 1. Endocr. Res. 30: 855.


## CHROMOSOMAL LOCATION

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

## SOURCE

SF-1 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide 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-10975 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-10975 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SF-1 (P-17) 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).

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 (P-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

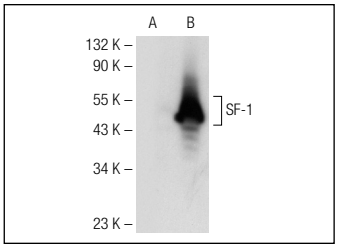
Molecular Weight of SF-1: 53 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or SF-1 (h): 293T Lysate: sc-158953.

## 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




SF-1 (P-17): sc-10975. 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.

## SELECT PRODUCT CITATIONS


1. Bengtsson, S., et al. 2002. Transcriptional regulation of the human carboxyl ester lipase gene in THP-1 monocytes: an E-box required for activation binds upstream stimulatory factors 1 and 2. Biochem J. 365: 481-488.


## 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.

## PROTOCOLS

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