NR5A2 (B-8): sc-393369

BACKGROUND
NR5A2 (nuclear receptor subfamily 5, group A, member 2), also designated B1-binding factor (B1F or B1F2), CYP7A promoter-binding factor (CPF), fetoprotein-α 1 (AFP) transcription factor (FFT, FTZ-F1 or FTZ-F1β) and liver receptor homolog 1 (LRH-1), is a pre-adipocyte-specific nuclear receptor that regulates expression of aromatase in adipose tissue. NR5A2 belongs to the fushi tarazu factor-1 subfamily of orphan nuclear receptors. NR5A2 transcripts are abundant in the human ovary and testis and are predominantly expressed in tissues of endodermal origin. NR5A2 is a positive transcription factor for ABCG5 and ABCG8 and regulates genes involved in sterol and bile acid secretion from liver and intestine. It induces cell proliferation through the concomitant induction of cyclin D1 and E1, an effect that is potentiated by its interaction with β-catenin.

CHROMOSOMAL LOCATION
Genetic locus: NR5A2 (human) mapping to 1q32.1; Nr5a2 (mouse) mapping to 1 E4.

SOURCE
NR5A2 (B-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 27-54 near the N-terminus of NR5A2 of human origin.

PRODUCT
Each vial contains 200 µg IgM kappa light chain 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-393369 X, 200 µg/0.1 ml. Blocking peptide available for competition studies, sc-393369 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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

APPLICATIONS
NR5A2 (B-8) is recommended for detection of NR5A2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 1:50-1:1500) and solid phase ELISA (starting dilution 1:100, dilution range 1:30-1:3000).

Suitable for use as control antibody for NR5A2 siRNA (h): sc-37897, NR5A2 siRNA (m): sc-37898, NR5A2 shRNA Plasmid (h): sc-37897-SH, NR5A2 shRNA Plasmid (m): sc-37898-SH, NR5A2 shRNA (h) Lentiviral Particles: sc-37897-V and NR5A2 shRNA (m) Lentiviral Particles: sc-37898-V.

NR5A2 (B-8) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NR5A2 isoforms: 61/56/42 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206 or mouse pancreas extract: sc-364244.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP-BP: sc-516102 or m-IgG HRP-BP (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. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG HRP-FITC: sc-516140 or m-IgG HRP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

SELECT PRODUCT CITATIONS

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 for detailed protocols and support products.