

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 (FTF, FTZ-F1 or FTZ-F1 β) 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 μ g 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 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-393369 P, (100 μ g 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 μ g per 100-500 μ g 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 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.

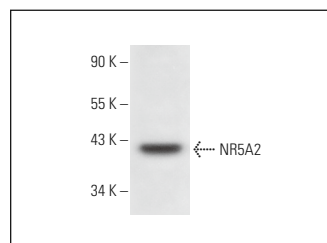
Molecular Weight of NR5A2 isoforms: 61/56/42 kDa.

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

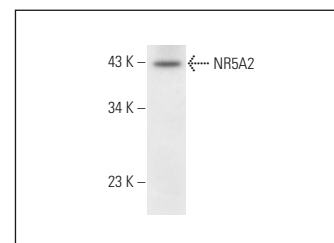
RECOMMENDED SUPPORT REAGENTS

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

DATA



NR5A2 (B-8): sc-393369. Western blot analysis of NR5A2 expression in MCF7 whole cell lysate.



NR5A2 (B-8): sc-393369. Western blot analysis of NR5A2 expression in mouse pancreas tissue extract.

SELECT PRODUCT CITATIONS

1. Furlan-Magaril, M., et al. 2021. The global and promoter-centric 3D genome organization temporally resolved during a circadian cycle. *Genome Biol.* 22: 162.
2. Torres, S., et al. 2021. Acid ceramidase improves mitochondrial function and oxidative stress in Niemann-Pick type C disease by repressing STARD1 expression and mitochondrial cholesterol accumulation. *Redox Biol.* 45: 102052.
3. Kim, Y.C., et al. 2023. Transgenic mice lacking FGF15/19-SHP phosphorylation display altered bile acids and gut bacteria, promoting nonalcoholic fatty liver disease. *J. Biol. Chem.* 299: 104946.
4. Luo, Y.W., et al. 2023. Anti-apoptotic effect of adrenomedullin gene delivery on Leydig cells by suppressing TGF- β 1 via the Hippo signaling pathway. *Reprod. Toxicol.* 119: 108418.
5. Hu, Y., et al. 2023. Genomic distribution of signal transducer and activator of transcription (STAT) family in colorectal cancer. *Hum. Cell* 36: 286-295.

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.