NR5A2 (M-14): sc-21133



The Power to Question

BACKGROUND

NR5A2 (nuclear receptor subfamily 5, group A, member 2, also designated $\beta 1$ -binding factor (B1F or B1F2), CYP7A promoter-binding factor (CPF), feto-protein- $\alpha 1$ (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.

REFERENCES

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- Botrugno, O.A., et al. 2004. Synergy between LRH-1 and β-catenin induces G₁ cyclin-mediated cell proliferation. Mol. Cell 15: 499-509.

CHROMOSOMAL LOCATION

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

SOURCE

NR5A2 (M-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of NR5A2 of mouse origin.

STORAGE

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

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-21132 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NR5A2 (M-14) is recommended for detection of all NR5A2 isoforms of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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.

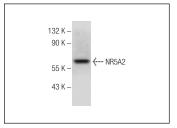
Molecular Weight of NR5A2 isoforms: 61/56/42 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Mouse Pancreas Extract: sc-364244.

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



NR5A2 (M-14): sc-21133. Western blot analysis of NR5A2 expression in mouse pancreas tissue extract

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.