SANTA CRUZ BIOTECHNOLOGY, INC.

Rev-erbβ (C-14): sc-47620

BACKGROUND

Orphan nuclear receptors NR1D1 and NR1D2 are more commonly designated Rev-erbα and Rev-erbβ, respectively. Rev-erbα acts as a receptor for triiodothyronine and is composed of three domains: a modulating N-terminal domain, a C-terminal steroid binding domain and a DNA-binding domain. Rev-erbβ binds to the sequences 5'-AATGTAGGTCA-3' and 5'-ATAACTAGGTCA-3' and acts as a competitive repressor of RORα function. It interacts with NCOA5 co-activator which leads to an increase in transcription. Both Rev-erbα and Rev-erbβ are nuclear proteins belonging to the nuclear hormone receptor family of proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NR1D2 (human) mapping to 3p24.2; Nr1d2 (mouse) mapping to 14 A2.

SOURCE

Rev-erbβ (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Rev-erbβ of human origin.

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.

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-47620 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-47620 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Rev-erbβ (C-14) is recommended for detection of Rev-erbβ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Rev-erbβ (C-14) is also recommended for detection of Rev-erbβ in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Rev-erbβ siRNA (h): sc-61456, Rev-erbβ siRNA (m): sc-61457, Rev-erbβ shRNA Plasmid (h): sc-61456-SH, Rev-erbβ shRNA Plasmid (m): sc-61457-SH, Rev-erbβ shRNA (h) Lentiviral Particles: sc-61456-V and Rev-erbβ shRNA (m) Lentiviral Particles: sc-61457-V.

Rev-erbβ (C-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Rev-erbβ: 70 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or rat heart extract: sc-2393.

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) 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.

PROTOCOLS

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

MONOS Satisfaction Guaranteed

Try **Rev-erbβ (D-8): sc-398252** or **Rev-erbβ (QK-6): sc-100911**, our highly recommended monoclonal alternatives to Rev-erbβ (C-14).