SANTA CRUZ BIOTECHNOLOGY, INC.

NCoA-3 (N-20): sc-6974



BACKGROUND

Nuclear receptors for steroids, thyroid hormones and retinoic acids are liganddependent transcription factors that activate transcription through specific DNA binding sites in their target genes. Several related transcriptional coactivators and co-repressors have been described that work in concert with the steroid receptor family to either induce or repress transcription from hormoneresponsive elements. This family includes GRIP1 (for GR interacting protein 1), also designated NCoA-2 or TIF2; SRC-1 (for steroid receptor coactivator-1), also designated NCoA-1; NCoA-3, also designated RAC-3, ACTR, AIB-1 (for amplified in breast cancer); and p/CIP (for p300/CBP/co-integrator protein), which displays elevated expression in estrogen receptor positive ovarian and breast cancers and is required for the transcriptional activation of p300/CBPdependent transcription factors.

REFERENCES

- 1. Ribeiro, R.C., et al. 1995. The nuclear hormone receptor gene superfamily. Annu. Rev. Med. 46: 443-453.
- Onate, S.A., et al. 1995. Sequence and characterization of a coactivator for the steroid hormone receptor superfamily. Science 270: 1354-1357.
- Hong, H., et al. 1996. GRIP1, a novel mouse protein that serves as a transcriptional coactivator in yeast for the hormone binding domains of steroid receptors. Proc. Natl. Acad. Sci. USA 93: 4948-4952.
- Li, H., et al. 1997. RAC3, a steroid/nuclear receptor-associated coactivator that is related to SRC-1 and TIF2. Proc. Natl. Acad. Sci. USA 94: 8479-8484.
- Anzick, S.L., et al. 1997. AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. Science 277: 965-968.
- Torchia, J., et al. 1997. The transcriptional coactivator p/CIP binds CBP and mediates nuclear-receptor function. Nature 387: 677-684.

CHROMOSOMAL LOCATION

Genetic locus: Ncoa3 (mouse) mapping to 2 H3.

SOURCE

NCoA-3 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of NCoA-3 of mouse origin.

PRODUCT

Each vial contains 200 μ g lgG 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-6974 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-6974 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

NCoA-3 (N-20) is recommended for detection of NCoA-3 of mouse and rat 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); non cross-reactive with GRIP-1.

NCoA-3 (N-20) is also recommended for detection of NCoA-3 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for NCoA-3 siRNA (m): sc-29637, NCoA-3 shRNA Plasmid (m): sc-29637-SH and NCoA-3 shRNA (m) Lentiviral Particles: sc-29637-V.

NCoA-3 (N-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NCoA-3: 160 kDa.

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) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

- Yamashita, S. 2004. Ontogenic expression of estrogen receptor coactivators in the reproductive tract of female mice neonatally exposed to diethylstilbestrol. Reprod. Toxicol. 18: 275-284.
- Amodio, N., et al. 2010. Oncogenic role of the E3 ubiquitin ligase NEDD4-1, a PTEN negative regulator, in non-small-cell lung carcinomas. Am. J. Pathol. 177: 2622-2634.

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.

