SANTA CRUZ BIOTECHNOLOGY, INC.

NCoA-3 (N-17): sc-7217

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Nuclear receptors for steroids, thyroid hormones and retinoic acids are ligand-dependent 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 hormone-responsive 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/CBP-dependent transcription factors.

CHROMOSOMAL LOCATION

Genetic locus: NCOA3 (human) mapping to 20q13.12.

SOURCE

NCoA-3 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of NCoA-3 of human origin.

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-7217 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-7217 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

CoA-3 (N-17) is recommended for detection of NCoA-3 of human origin by Western Blotting (starting dilution 1:200, 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 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NCoA-3 (N-17) is also recommended for detection of NCoA-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NCoA-3 siRNA (h): sc-29636, NCoA-3 shRNA Plasmid (h): sc-29636-SH and NCoA-3 shRNA (h) Lentiviral Particles: sc-29636-V.

NCoA-3 (N-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

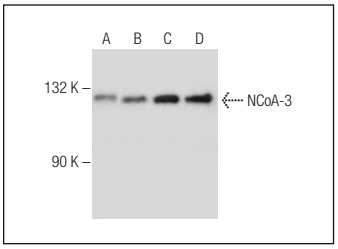
Molecular Weight of NCoA-3: 160 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, HeLa nuclear extract: sc-2120 or K-562 nuclear extract: sc-2130.

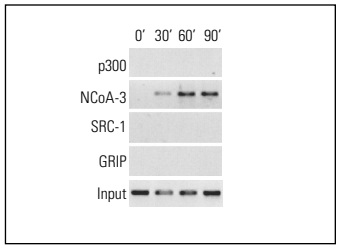
RECOMMENDED SECONDARY REAGENTS

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



NCoA-3 (N-17): sc-7217. Western blot analysis of NCoA-3 expression in HL-60 whole cell lysate (**A**) and HeLa (**B**), K-562 (**C**) and MCF7 (**D**) nuclear extracts.



ChIP analysis of cofactor occupancy dynamics on the ICAM1 promoter in 293 cells in response to IL-1 treatment. Antibodies tested include p300 (C-20): sc-585, p300 (N-15): sc-584, p300 (H-272): sc-8981, NCoA-3 (F-2): sc-5305, NCoA-3 (M-397): sc-9119, NCoA-3 (N-17): sc-7217, NCoA-3 (C-20): sc-7216, SRC-1 (M-341): sc-8995, SRC-1 (C-20): sc-6096, SRC-1 (M-20): sc-6098 and GRIP1 (M-343): sc-8996. Data kindly provided by M.G. Rosenfeld and reproduced with permission from Baek et al., Cell 2002, 110: 55-67.

SELECT PRODUCT CITATIONS

1. Hestermann, E.V., et al. 2003. Agonist and chemopreventative ligands induce differential transcriptional cofactor recruitment by aryl hydrocarbon receptor. Mol. Cell. Biol. 21: 7920-7925.
2. Deschênes, J., et al. 2007. Regulation of GREB1 transcription by estrogen receptor α through a multipartite enhancer spread over 20 kb of upstream flanking sequences. J. Biol. Chem. 282: 17335-17339.

STORAGE

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

MONOS Satisfaction Guaranteed

Try **NCoA-3 (F-2): sc-5305** or **NCoA-3 (B-3): sc-515530**, our highly recommended monoclonal alternatives to NCoA-3 (N-17).