SANTA CRUZ BIOTECHNOLOGY, INC.

NCoA-3 (N-16): sc-14605



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.

CHROMOSOMAL LOCATION

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

SOURCE

NCoA-3 (N-16) 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 μ g 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-14605 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-14605 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NCoA-3 (N-16) 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).

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-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NCoA-3: 160 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, Jurkat whole cell lysate: sc-2204 or MIA PaCa-2 cell lysate: sc-2285.

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-16): sc-14605. Western blot analysis of NCoA-3 expression in Jurkat (A) and K-562 (B) whole cell lysates.

NCoA-3 (N-16): sc-14605. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization

SELECT PRODUCT CITATIONS

 Barna, B.P., et al. 2012. Alveolar macrophage cathelicidin deficiency in severe sarcoidosis. J. Innate Immun. 4: 569-578.

STORAGE

Store at 4° C, **D0 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.

PROTOCOLS

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

MONOS Satisfation Guaranteed

Try NCoA-3 (F-2): sc-5305 or NCoA-3 (B-3): sc-515530, our highly recommended monoclonal aternatives to NCoA-3 (N-16).