

NCoA-3 (K-15): sc-14607

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.

REFERENCES

1. Ribeiro, R.C., et al. 1995. The nuclear hormone receptor gene superfamily. *Annu. Rev. Med.* 46: 443-453.
2. Onate, S.A., et al. 1995. Sequence and characterization of a coactivator for the steroid hormone receptor superfamily. *Science* 270: 1354-1357.
3. 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.
4. 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.
5. Anzick, S.L., et al. 1997. AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. *Science* 277: 965-968.
6. 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 (human) mapping to 20q13.12; Ncoa3 (mouse) mapping to 2 H3.

SOURCE

NCoA-3 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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-14607 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-14607 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

NCoA-3 (K-15) is recommended for detection of NCoA-3 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).

NCoA-3 (K-15) is also recommended for detection of NCoA-3 in additional species, including equine, canine, bovine and porcine.

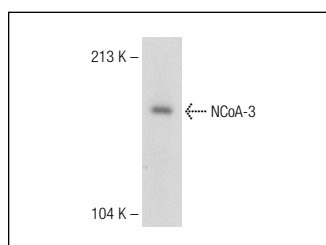
Suitable for use as control antibody for NCoA-3 siRNA (h): sc-29636, NCoA-3 siRNA (m): sc-29637, NCoA-3 shRNA Plasmid (h): sc-29636-SH, NCoA-3 shRNA Plasmid (m): sc-29637-SH, NCoA-3 shRNA (h) Lentiviral Particles: sc-29636-V and NCoA-3 shRNA (m) Lentiviral Particles: sc-29637-V.

NCoA-3 (K-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

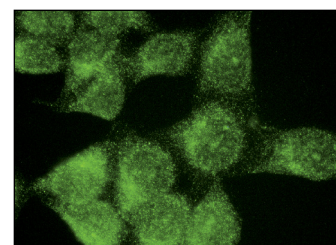
Molecular Weight of NCoA-3: 160 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa nuclear extract: sc-2120 or HeLa whole cell lysate: sc-2200.

DATA



NCoA-3 (K-15): sc-14607. Western blot analysis of NCoA-3 expression in Jurkat whole cell lysate.



NCoA-3 (K-15): sc-14607. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear localization.

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.



Try **NCoA-3 (F-2): sc-5305** or **NCoA-3 (B-3): sc-515530**, our highly recommended monoclonal alternatives to NCoA-3 (K-15).