SANTA CRUZ BIOTECHNOLOGY, INC.

NCoA-3 (H-80): sc-25742

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 co-activators and corepressors 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 GRIP-1 (for GR interacting protein-1), also designated NCoA-2 or TIF2; SRC-1 (for steroid receptor co-activator-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; Ncoa3 (mouse) mapping to 2 H3.

SOURCE

NCoA-3 (H-80) is a rabbit polyclonal antibody raised against amino acids 1321-1400 of AIB-1 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-25742 X, 200 µg/0.1 ml.

APPLICATIONS

NCoA-3 (H-80) 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), 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), immunohistochemistry (including paraffin-embedded sections) (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 (H-80) is also recommended for detection of AIB-1 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 (H-80) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

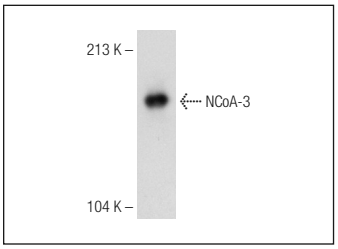
Molecular weight of NCoA-3: 160 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

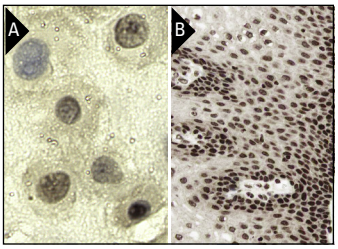
STORAGE

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

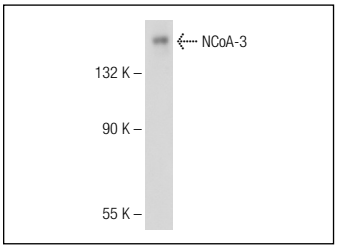
DATA



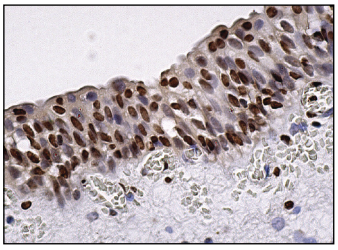
NCoA-3 (H-80): sc-25742. Western blot analysis of NCoA-3 expression in K-562 whole cell lysate.



NCoA-3 (H-80): sc-25742. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing nuclear and cytoplasmic localization (**A**). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing nuclear staining of surface epithelial cells. Kindly provided by The Swedish Human Protein Atlas (HPA) program (**B**).



NCoA-3 (H-80): sc-25742. Western blot analysis of NCoA-3 expression in HeLa whole cell lysate.



NCoA-3 (H-80): sc-25742. Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing nuclear staining of urothelial cells.

SELECT PRODUCT CITATIONS

1. Massinen, S., et al. 2009. Functional interaction of DYX1C1 with estrogen receptors suggests involvement of hormonal pathways in dyslexia. Hum. Mol. Genet. 18: 2802-2812.
2. Suresh, P.S., et al. 2011. The effect of progesterone replacement on gene expression in the corpus luteum during induced regression and late luteal phase in the bonnet monkey *(Macaca radiata)*. Reprod. Biol. Endocrinol. 9: 20.

RESEARCH USE

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