

NCoA-5 (G-20): sc-86178

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. NCoA-5 (nuclear receptor coactivator 5), also known as CIA (coactivator independent of AF-2), is a widely expressed nuclear receptor coregulator consisting of 579 amino acids. NCoA-5 acts as a coactivator for ER α (estrogen receptor α), ER β (estrogen receptor β) and Rev-erb β (orphan nuclear hormone receptor BD73), and corepresses c-Myc in response to 17- β -estradiol. NCoA-5 contains one LxxLL (Leu-Xaa-Xaa-Leu-Leu) motif that allows it to successfully associate with nuclear receptors, and the NCoA-5 gene maps to human chromosome 20q13.12.

REFERENCES

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3. Jiang, C., Ito, M., Piening, V., Bruck, K., Roeder, R.G. and Xiao, H. 2004. TIP30 interacts with an estrogen receptor α -interacting coactivator CIA and regulates c-Myc transcription. *J. Biol. Chem.* 279: 27781-27789.
4. Klinge, C.M., Jernigan, S.C., Mattingly, K.A., Risinger, K.E. and Zhang, J. 2004. Estrogen response element-dependent regulation of transcriptional activation of estrogen receptors α and β by coactivators and corepressors. *J. Mol. Endocrinol.* 33: 387-410.
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CHROMOSOMAL LOCATION

Genetic locus: NCOA5 (human) mapping to 20q13.12; Ncoa5 (mouse) mapping to 2 H3.

SOURCE

NCoA-5 (G-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NCoA-5 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.

Blocking peptide available for competition studies, sc-86178 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-86178 X, 100 μ g/0.1 ml.

RESEARCH USE

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

APPLICATIONS

NCoA-5 (G-20) is recommended for detection of NCoA-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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); non cross-reactive with NCoA-3.

NCoA-5 (G-20) is also recommended for detection of NCoA-5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NCoA-5 siRNA (h): sc-75885, NCoA-5 siRNA (m): sc-149858, NCoA-5 shRNA Plasmid (h): sc-75885-SH, NCoA-5 shRNA Plasmid (m): sc-149858-SH, NCoA-5 shRNA (h) Lentiviral Particles: sc-75885-V and NCoA-5 shRNA (m) Lentiviral Particles: sc-149858-V.

NCoA-5 (G-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

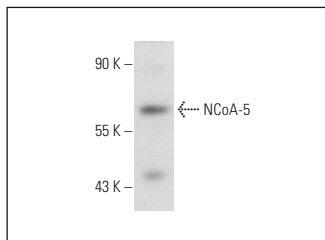
Molecular Weight of NCoA-5: 66 kDa.

Positive Controls: T24 cell lysate: sc-2292 or Jurkat nuclear extract: sc-2132.

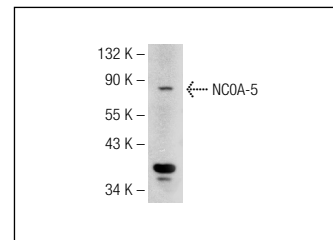
RECOMMENDED SECONDARY REAGENTS

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 MarkerTM compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz MarkerTM 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 UltraCruzTM Mounting Medium: sc-24941.

DATA



NCoA-5 (G-20): sc-86178. Western blot analysis of NCoA-5 expression in Jurkat nuclear extract.



NCoA-5 (G-20): sc-86178. Western blot analysis of NCoA-5 expression in T24 whole cell lysate.

STORAGE

Store at 4 $^{\circ}$ C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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