

# NCoA-3 (M-397): sc-9119

## 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, NCOA2 (human) mapping to 8q13.3; Ncoa3 (mouse) mapping to 2 H3, Ncoa2 (mouse) mapping to 1 A3.

## SOURCE

NCoA-3 (M-397) is a rabbit polyclonal antibody raised against amino acids 455-851 of NCoA-3 of mouse 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 ChIP application, sc-9119 X, 200 µg/0.1 ml.

## APPLICATIONS

NCoA-3 (M-397) is recommended for detection of NCoA-3 and, to a lesser extent, GRIP-1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NCoA-3 (M-397) is also recommended for detection of NCoA-3 and, to a lesser extent GRIP-1 in additional species, including equine, canine, bovine and porcine.

NCoA-3 (M-397) X TransCruz antibody is recommended for ChIP assays.

Molecular Weight of NCoA-3: 160 kDa.

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

## RESEARCH USE

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

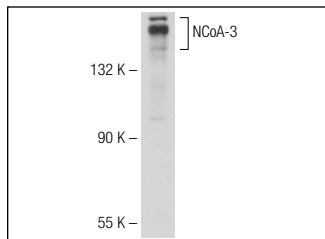
## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

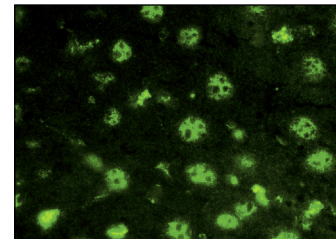
## STORAGE

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

## DATA



NCoA-3 (M-397): sc-9119. Western blot analysis of NCoA-3 expression in HeLa whole cell lysate.



NCoA-3 (M-397): sc-9119. Immunofluorescence staining of normal mouse liver frozen section showing nuclear staining.

## SELECT PRODUCT CITATIONS

1. Métiévier, R., et al. 2003. Estrogen receptor- $\alpha$  directs ordered, cyclical, and combinatorial recruitment of co-factors on a natural target promoter. *Cell* 115: 751-763.
2. Carroll, J.S., et al. 2003. p27<sup>Kip1</sup> induces quiescence and growth factor insensitivity in tamoxifen-treated breast cancer cells. *Cancer Res.* 63: 4322-4326.
3. Aoyagi, S. and Archer, T.K. 2008. Nicotinamide uncouples hormone-dependent chromatin remodeling from transcription complex assembly. *Mol. Cell. Biol.* 28: 30-39.
4. Müller, P., et al. 2009. Estrogen-dependent downregulation of hairy and enhancer of split homolog-1 gene expression in breast cancer cells is mediated via a 3' distal element. *J. Endocrinol.* 200: 311-319.
5. Ross-Innes, C.S., et al. 2010. Cooperative interaction between retinoic acid receptor- $\alpha$  and estrogen receptor in breast cancer. *Genes Dev.* 24: 171-182.
6. Kashyap, V., et al. 2010. Epigenetic regulatory mechanisms distinguish retinoic acid-mediated transcriptional responses in stem cells and fibroblasts. *J. Biol. Chem.* 285: 14534-14548.
7. Mendoza-Parra, M.A., et al. 2011. Dissecting the retinoid-induced differentiation of F9 embryonal stem cells by integrative genomics. *Mol. Syst. Biol.* 7: 538.
8. Ceschin, D.G., et al. 2011. Methylation specifies distinct estrogen-induced binding site repertoires of CBP to chromatin. *Genes Dev.* 25: 1132-1146.

**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 (M-397).