

# RIP140 (K-18): sc-9458

## 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 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 GRIP1 (for GR interacting protein 1, also designated NCoA-2 or Tif2); SRC-1 (for steroid receptor coactivator-1, also designated NCoA-1); RAC3 (also designated AIB1, for amplified in breast cancer, or ACTR), which displays elevated expression in estrogen receptor positive ovarian and breast cancers; and p/CIP (for p300/CBP/ co-integrator protein), which is required for the transcriptional activation of p300/CBP-dependent transcription factors. RIP140 is a general coactivator/corepressor that interacts with the AF2 activation domain of nuclear receptors.

## REFERENCES

1. Cavailles, V., et al. 1995. Nuclear factor RIP140 modulates transcriptional activation by the estrogen receptor. *EMBO J.* 14: 3741-3451.
2. Ribeiro, R.C., et al. 1995. The nuclear hormone receptor gene superfamily. *Ann. Rev. Med.* 46: 443-453.
3. Onate, S.A., et al. 1995. Sequence and characterization of a coactivator for the steroid hormone receptor superfamily. *Science* 270: 1354-1357.
4. 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.
5. 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.
6. Anzick, S.L., et al. 1997. AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. *Science* 277: 965-968.
7. Torchia, J., et al. 1997. The transcriptional co-activator p/CIP binds CBP and mediates nuclear-receptor function. *Nature* 387: 677-684.

## CHROMOSOMAL LOCATION

Genetic locus: NRIP1 (human) mapping to 21q11.2; Nrip1 (mouse) mapping to 16 C3.1.

## SOURCE

RIP140 (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RIP140 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.

Blocking peptide available for competition studies, sc-9458 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

RIP140 (K-18) is recommended for detection of RIP140 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).

RIP140 (K-18) is also recommended for detection of RIP140 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for RIP140 siRNA (h): sc-36428, RIP140 siRNA (m): sc-36429, RIP140 shRNA Plasmid (h): sc-36428-SH, RIP140 shRNA Plasmid (m): sc-36429-SH, RIP140 shRNA (h) Lentiviral Particles: sc-36428-V and RIP140 shRNA (m) Lentiviral Particles: sc-36429-V.

Molecular Weight of RIP140: 160-180 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or MCF7 whole cell lysate: sc-2206.

## 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) 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.

## SELECT PRODUCT CITATIONS

1. Zhang, Z., et al. 2006. Estrogen-related receptors-stimulated monoamine oxidase B promoter activity is down-regulated by estrogen receptors. *Mol. Endocrinol.* 20: 1547-1561.

## STORAGE

Store at 4° 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **RIP140 (2656C6a): sc-81370**, our highly recommended monoclonal alternative to RIP140 (K-18).