

# SRC-1 (8): sc-136077

## 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.

## REFERENCES

- Ribeiro, R.C., et al. 1995. The nuclear hormone receptor gene superfamily. *Annu. Rev. Med.* 46: 443-453.
- Onate, S.A., et al. 1995. Sequence and characterization of a coactivator for the steroid hormone receptor superfamily. *Science* 270: 1354-1357.
- 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.
- 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.
- Anzick, S.L., et al. 1997. AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. *Science* 277: 965-968.
- 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: NCOA1 (human) mapping to 2p23.3; Ncoa1 (mouse) mapping to 12 A1.1.

## SOURCE

SRC-1 (8) is a mouse monoclonal antibody raised against amino acids 761-863 of SRC-1 of human origin.

## PRODUCT

Each vial contains 50 µg IgG<sub>2a</sub> in 500 µl of PBS with < 0.1% sodium azide, 0.1% gelatin, 20% glycerol and 0.04% stabilizer protein.

## 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) for detailed protocols and support products.

## APPLICATIONS

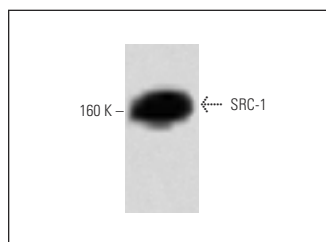
SRC-1 (8) is recommended for detection of SRC-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for SRC-1 siRNA (h): sc-36555, SRC-1 siRNA (m): sc-36556, SRC-1 siRNA (r): sc-270126, SRC-1 shRNA Plasmid (h): sc-36555-SH, SRC-1 shRNA Plasmid (m): sc-36556-SH, SRC-1 shRNA Plasmid (r): sc-270126-SH, SRC-1 shRNA (h) Lentiviral Particles: sc-36555-V, SRC-1 shRNA (m) Lentiviral Particles: sc-36556-V and SRC-1 shRNA (r) Lentiviral Particles: sc-270126-V.

Molecular Weight of SRC-1: 160 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, K-562 nuclear extract: sc-2130 or A549 cell lysate: sc-2413.

## DATA



SRC-1 (8): sc-136077. Western blot analysis of SRC-1 expression in Jurkat whole cell lysate.

## SELECT PRODUCT CITATIONS

- Patil, M., et al. 2017. Id1 promotes obesity by suppressing brown adipose thermogenesis and white adipose browning. *Diabetes* 66: 1611-1625.
- Elattar, S., et al. 2018. The tumor secretory factor ZAG promotes white adipose tissue browning and energy wasting. *FASEB J.* 32: 4727-4743.
- Xu, H.B., et al. 2020. Z-guggulsterone regulates MDR1 expression mainly through the pregnane X receptor-dependent manner in human brain microvessel endothelial cells. *Eur. J. Pharmacol.* 874: 173023.

## RESEARCH USE

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