

SRC-1 (6D775): sc-73057

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 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.
- Oonate, 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; Nco1 (mouse) mapping to 12 A1.1.

SOURCE

SRC-1 (6D775) is a mouse monoclonal antibody raised against amino acids 477-947 of SRC-1 GST fusion protein.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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 for detailed protocols and support products.

APPLICATIONS

SRC-1 (6D775) 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (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.

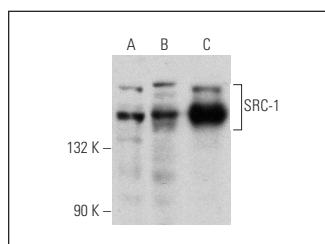
Molecular Weight of SRC-1: 160 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, F9 cell lysate: sc-2245 or KNRK whole cell lysate: sc-2214.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



SRC-1 (6D775): sc-73057. Western blot analysis of SRC-1 expression in Hep G2 (A), F9 (B) and KNRK (C) whole cell lysates.

RESEARCH USE

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