

SRC-1 (C-20): sc-6096

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.

CHROMOSOMAL LOCATION

Genetic locus: NCOA1 (human) mapping to 2p23.3; NcoA1 (mouse) mapping to 12 A1.1.

SOURCE

SRC-1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of SRC-1 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-6096 P, (100 µg 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-6096 X, 200 µg/0.1 ml.

APPLICATIONS

SRC-1 (C-20) 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SRC-1 (C-20) is also recommended for detection of SRC-1 in additional species, including equine.

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

SRC-1 (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

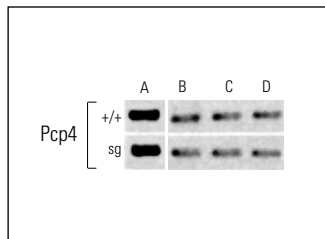
Molecular Weight of SRC-1: 160 kDa.

Positive Controls: K-562 nuclear extract: sc-2130 or KNRK nuclear extract: sc-2141.

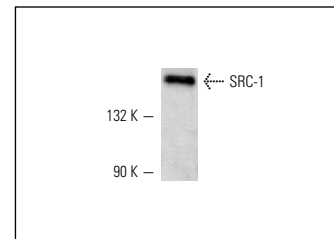
STORAGE

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

DATA



ChIP analysis of *in vivo* binding of RORα and its recruitment of coactivators to RORα-responsive promoters in freshly dissected cerebella derived from wild type (+/+) and staggerer (Sg) mice. Control Input (A). Antibodies used included SRC-1 (M-341): sc-8995, SRC-1 (C-20): sc-6096 and SRC-1 (M-20): sc-6098 (B), Grip-1 (M-434): sc-8996 (C), NCoA-3 (F-2): sc-5305, NCoA-3 (M-397): sc-9119, NCoA-3 (N-17): sc-7217 and NCoA-3 (C-20): sc-7216 (D). Data kindly provided by M.G. Rosenfeld and reproduced with permission from Gold et al., Neuron 2003, 40: 1119-1131.



SRC-1 (C-20): sc-6096. Western blot analysis of SRC-1 expression in K-562 nuclear extract.

SELECT PRODUCT CITATIONS

1. Tremblay, A., et al. 1999. Ligand-independent recruitment of SRC-1 to estrogen receptor β through phosphorylation of activation function AF-1. Mol. Cell 3: 513-519.
2. Wang, D., et al. 2009. Negative regulation of TSHα target gene by thyroid hormone involves histone acetylation and corepressor complex dissociation. Mol. Endocrinol. 23: 600-609.
3. Asano, J., et al. 2010. Histone acetylation and steroid receptor coactivator expression during clofibrate-induced rat hepatocarcinogenesis. Cancer Sci. 101: 869-875.
4. Wang, F., et al. 2010. Roles of coactivators in hypoxic induction of the erythropoietin gene. PLoS ONE 5: e10002.
5. Amazit, L., et al. 2011. Ligand-dependent degradation of SRC-1 is pivotal for progesterone receptor transcriptional activity. Mol. Endocrinol. 25: 394-408.
6. Song, Y., et al. 2011. Ligand-dependent corepressor acts as a novel corepressor of thyroid hormone receptor and represses hepatic lipogenesis in mice. J. Hepatol. 56: 248-254.

RESEARCH USE

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

MONOS
Satisfaction
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Try **SRC-1 (1135/H4): sc-32789** or **SRC-1 (8): sc-136077**, our highly recommended monoclonal alternatives to SRC-1 (C-20).