SANTA CRUZ BIOTECHNOLOGY, INC.

SRC-1 (1135/H4): sc-32789

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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

1. Ribeiro, R.C., et al. 1995. The nuclear hormone receptor gene superfamily. Annu. Rev. Med. 46: 443-453.
2. Oñate, S.A., et al. 1995. Sequence and characterization of a coactivator for the steroid hormone receptor superfamily. Science 270: 1354-1357.
3. 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.
4. Li, H., et al. 1997. Rac 3, a steroid/nuclear receptor-associated coactivator that is related to SRC-1 and TIF2. Proc. Natl. Acad. Sci. USA 94: 8479-8484.

CHROMOSOMAL LOCATION

Genetic locus: NCOA1 (human) mapping to 2p23.3; Ncoa1 (mouse) mapping to 12 A1.1.

SOURCE

SRC-1 (1135/H4) is a mouse monoclonal antibody raised against amino acids 477-947 of SRC-1 GST fusion protein.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-32789 X, 200 µg/0.1 ml.

SRC-1 (1135/H4) is available conjugated to agarose (sc-32789 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-32789 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-32789 PE), fluorescein (sc-32789 FITC), Alexa Fluor® 488 (sc-32789 AF488), Alexa Fluor® 546 (sc-32789 AF546), Alexa Fluor® 594 (sc-32789 AF594) or Alexa Fluor® 647 (sc-32789 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-32789 AF680) or Alexa Fluor® 790 (sc-32789 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

RESEARCH USE

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

APPLICATIONS

SRC-1 (1135/H4) 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).

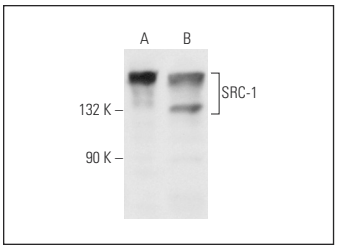
Suitable for use as control antibody for SRC-1 siRNA (h): sc-36555, SRC-1 siRNA (m): sc-36556, SRC-1 siRNA (r): sc-270126, SRC-1 shRNA Plasmid (h): sc-36555-SH, SRC-1 shRNA Plasmid (m): sc-36556-SH, SRC-1 shRNA Plasmid (r): sc-270126-SH, SRC-1 shRNA (h) Lentiviral Particles: sc-36555-V, SRC-1 shRNA (m)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

SRC-1 (1135/H4) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

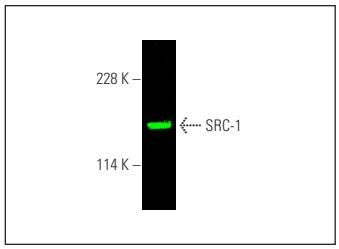
Molecular Weight of SRC-1: 160 kDa.

Positive Controls: KNRK nuclear extract: sc-2141, COS E2 whole cell lysate or K-562 nuclear extract: sc-2130.

DATA



SRC-1 (1135/H4): sc-32789. Western blot analysis of SRC-1 expression in KNRK nuclear extract (**A**) and COS E2 whole cell lysate (**B**).



SRC-1 (1135/H4): sc-32789. Near-infrared western blot analysis of SRC-1 expression in KNRK nuclear extract. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.

SELECT PRODUCT CITATIONS

1. Braun, L., et al. 2013. Intrinsic breast cancer subtypes defined by estrogen receptor signalling-prognostic relevance of progesterone receptor loss. Mod. Pathol. 26: 1161-1171.
2. Zhao, X., et al. 2018. *Ganoderma lucidum* polysaccharide inhibits prostate cancer cell migration via the protein arginine methyltransferase 6 signaling pathway. Mol. Med. Rep. 17: 147-157.
3. Musial, B., et al. 2019. Exercise alters the molecular pathways of Insulin signaling and lipid handling in maternal tissues of obese pregnant mice. Physiol. Rep. 7: e14202.
4. Chen, X., et al. 2020. Inhibition of steroid receptor coactivator-1 in the hippocampus impairs the consolidation and reconsolidation of contextual fear memory in mice. Life Sci. 245: 117386.

STORAGE

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