

GRIP-1 (C-20): sc-6976

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 GRIP-1 (for GR interacting protein-1, also designated NCoA-2 or TIF-2); 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. Onate, 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. GRIP-1, 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.

CHROMOSOMAL LOCATION

Genetic locus: NCOA2 (human) mapping to 8q13.3; Ncoa2 (mouse) mapping to 1 A3.

SOURCE

GRIP-1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GRIP-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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-6976 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6976 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

GRIP-1 (C-20) is recommended for detection of GRIP-1 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).

GRIP-1 (C-20) is also recommended for detection of GRIP-1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for GRIP-1 siRNA (h): sc-38882, GRIP-1 siRNA (m): sc-38883, GRIP-1 shRNA Plasmid (h): sc-38882-SH, GRIP-1 shRNA Plasmid (m): sc-38883-SH, GRIP-1 shRNA (h) Lentiviral Particles: sc-38882-V and GRIP-1 shRNA (m) Lentiviral Particles: sc-38883-V.

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

Molecular Weight of GRIP-1: 160 kDa.

Positive Controls: HeLa + PMA nuclear extract: sc-2121, HeLa nuclear extract: sc-2120 or K-562 nuclear extract: sc-2130.

SELECT PRODUCT CITATIONS

1. Baek, S., et al. 2002. Exchange of N-CoR corepressor and TIP60 coactivator complexes links gene expression by NFκB and β-Amyloid precursor protein. *Cell* 110: 55-67.
2. Sharma, D., et al. 2002. Ordered recruitment of histone acetyltransferases and the TRAP/mediator complex to thyroid hormone-responsive promoters *in vivo*. *Proc. Natl. Acad. Sci. USA* 99: 7934-7939.
3. Kurihara, I., et al. 2002. Expression and regulation of nuclear receptor coactivators in glucocorticoid action. *Mol. Cell. Endocrinol.* 189: 181-189.
4. Hestermann, E.V., et al. 2003. Agonist and chemopreventative ligands induce differential transcriptional cofactor recruitment by aryl hydrocarbon receptor. *Mol. Cell. Biol.* 21: 7920-7925.
5. Foryst-Ludwig, A., et al. 2008. Metabolic actions of estrogen receptor β (ERβ) are mediated by a negative cross-talk with PPARγ. *PLoS Genet.* 4: e1000108.
6. Flammer, J.R., et al. 2010. The type I interferon signaling pathway is a target for glucocorticoid inhibition. *Mol. Cell. Biol.* 30: 4564-4574.
7. Asano, J., et al. 2010. Histone acetylation and steroid receptor coactivator expression during clofibrate-induced rat hepatocarcinogenesis. *Cancer Sci.* 101: 869-875.

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Try **GRIP-1 (F-2): sc-365827** or **GRIP-1 (29): sc-136244**, our highly recommended monoclonal alternatives to GRIP-1 (C-20).