

GRIP-1 (F-20): sc-6264

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 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. 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 (F-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GRIP-1 of mouse 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-6264 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6264 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 (F-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 (F-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 (F-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.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

1. Miura, T., et al. 2001. Functional modulation of the glucocorticoid receptor and suppression of NFκB-dependent transcription by ursodeoxycholic acid. *J. Biol. Chem.* 276: 47371-47378.
2. Yang, W., et al. 2005. Inactivation of p21^{WAF1/cip1} enhances intestinal tumor formation in Muc2^{-/-} mice. *Am. J. Pathol.* 166: 1239-1246.
3. Zheng, Q.H., et al. 2006. p21^{Waf1/Cip1} plays a critical role in modulating senescence through changes of DNA methylation. *J. Cell. Biochem.* 98: 1230-1248.
4. Ronghe, A., et al. 2014. Differential regulation of estrogen receptors α and β by 4-(E)-{(4-hydroxyphenylimino)-methylbenzene,1,2-diol}, a novel resveratrol analog. *J. Steroid Biochem. Mol. Biol.* 144: 500-512.

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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 (F-20).