SANTA CRUZ BIOTECHNOLOGY, INC.

GRIP-1 (M-343): sc-8996



BACKGROUND

Nuclear receptors for steroids, thyroid hormones and retinoic acids are liganddependent 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 hormoneresponsive 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/CBPdependent transcription factors.

CHROMOSOMAL LOCATION

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

SOURCE

GRIP-1 (M-343) is a rabbit polyclonal antibody raised against amino acids 787-1129 mapping within an internal region of GRIP-1 of mouse origin.

PRODUCT

Each vial contains 200 μ g lgG 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-8996 X, 200 μ g/0.1 ml.

APPLICATIONS

GRIP-1 (M-343) 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), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

GRIP-1 (M-343) is also recommended for detection of GRIP-1 in additional species, including equine, canine, bovine and porcine.

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 (M-343) 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.

STORAGE

Store at 4° C, **D0 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.

DATA





GRIP-1 (M-343): sc-8996. Western blot analysis of GRIP-1 expression in K-562 $({\bm A}),$ HeLa $({\bm B})$ and PMA-treated HeLa $({\bm C})$ nuclear extracts.

GRIP-1 (M-343): sc-8996. Immunofluorescence staining of normal mouse liver frozen section showing nuclear staining.

SELECT PRODUCT CITATIONS

- Zafiropoulos, G.G., et al. 1990. Flow-cytometric analysis of lymphocyte subsets in patients with advanced periodontitis. J. Clin. Periodontol. 17: 636-641.
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- Tallack, M.R., et al. 2007. Erythroid Krüppel-like factor regulates the G₁ cyclin dependent kinase inhibitor p18INK4c. J. Mol. Biol. 369: 313-321.
- Geng, C.D., et al. 2008. A conserved molecular mechanism is responsible for the auto-up-regulation of glucocorticoid receptor gene promoters. Mol. Endocrinol. 22: 2624-2642.
- 5. Hariparsad, N., et al. 2009. Identification of pregnane-X receptor target genes and coactivator and corepressor binding to promoter elements in human hepatocytes. Nucleic Acids Res. 37: 1160-1173.
- 6. Chisamore, M.J., et al. 2009. Characterization of a novel small molecule subtype specific estrogen-related receptor α antagonist in MCF7 breast cancer cells. PLoS ONE 4: e5624.
- Presman, D.M., et al. 2010. Insights on glucocorticoid receptor activity modulation through the binding of rigid steroids. PLoS ONE 5: e13279.
- 8. Duplessis, T.T., et al. 2011. Phosphorylation of estrogen receptor α at serine 118 directs recruitment of promoter complexes and gene-specific transcription. Endocrinology 152: 2517-2526.
- Suresh, P.S., et al. 2011. The effect of progesterone replacement on gene expression in the corpus luteum during induced regression and late luteal phase in the bonnet monkey (*Macaca radiata*). Reprod. Biol. Endocrinol. 9: 20.

MONOS Satisfation

Guaranteed

sc-136244, our highly recommended monoclonal alternatives to GRIP-1 (M-343).

Try GRIP-1 (F-2): sc-365827 or GRIP-1 (29):