

RIP140 (F-2): sc-518071

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 co-activators 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. RIP140 is a general coactivator/corepressor that interacts with the AF2 activation domain of nuclear receptors.

REFERENCES

1. Ribeiro, R.C., et al. 1995. The nuclear hormone receptor gene superfamily. *Annu. Rev. Med.* 46: 443-453.
2. 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.
3. Onate, S.A., et al. 1995. Sequence and characterization of a coactivator for the steroid hormone receptor superfamily. *Science* 270: 1354-1357.
4. Li, H., et al. 1997. RAC3, a steroid/nuclear receptor-associated coactivator that is related to SRC-1 and TIF2. *Proc. Natl. Acad. Sci. USA* 94: 8479-8484.
5. Anzick, S.L., et al. 1997. AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. *Science* 277: 965-968.

CHROMOSOMAL LOCATION

Genetic locus: NR1P1 (human) mapping to 21q11.2.

SOURCE

RIP140 (F-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1125-1152 at the C-terminus of RIP140 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RIP140 (F-2) is available conjugated to agarose (sc-518071 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518071 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518071 PE), fluorescein (sc-518071 FITC), Alexa Fluor® 488 (sc-518071 AF488), Alexa Fluor® 546 (sc-518071 AF546), Alexa Fluor® 594 (sc-518071 AF594) or Alexa Fluor® 647 (sc-518071 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-518071 AF680) or Alexa Fluor® 790 (sc-518071 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

RIP140 (F-2) is recommended for detection of RIP140 of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for RIP140 siRNA (h): sc-36428, RIP140 shRNA Plasmid (h): sc-36428-SH and RIP140 shRNA (h) Lentiviral Particles: sc-36428-V.

Molecular Weight of RIP140: 160-180 kDa.

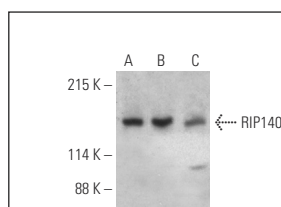
Positive Controls: MCF7 nuclear extract: sc-2149, Hep G2 cell lysate: sc-2227 or HEK293 whole cell lysate: sc-45136.

RECOMMENDED SUPPORT REAGENTS

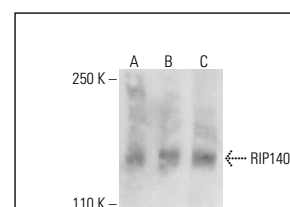
To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.
- 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
- 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



RIP140 (F-2): sc-518071. Western blot analysis of RIP140 expression in MCF7 nuclear extract (A) and Hep G2 (B) and HEK293 (C) whole cell lysates.



RIP140 (F-2) HRP: sc-518071 HRP. Direct western blot analysis of RIP140 expression in HeLa (A) and MCF7 (B) nuclear extracts and Hep G2 whole cell lysate (C).

SELECT PRODUCT CITATIONS

1. Tuano, N.K., et al. 2023. CRISPR screens identify gene targets at breast cancer risk loci. *Genome Biol.* 24: 59.
2. Fu, X., et al. 2025. A foundation model of transcription across human cell types. *Nature* 637: 965-973.

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.