

Reptin 52 (N-20): sc-34751

BACKGROUND

Pontin 52 is a nuclear matrix protein that is primarily expressed in the nucleus and is also present in the cytoplasm. Pontin 52 is expressed in the nucleoplasm of whole cells, but is not present in the nucleoli. Pontin 52 is also designated RUVBL1 for *E. coli* RuvB-like 1 protein or NMP 238, and is the human homolog of rat TIP49. Pontin 52 contains an ATPase/helicase motif and may represent a class of cofactors recruited by transcriptional activation domains that function in diverse pathways. For instance, *in vivo*, Pontin 52 is complexed with Myc and Reptin 52, which is a Pontin 52 related protein also designated RUVBL2. The interaction of Pontin 52 with Myc is dependent upon a Myc domain essential for oncogenic activity, suggesting that functional Pontin 52 is an essential mediator of Myc oncogenic transformation.

CHROMOSOMAL LOCATION

Genetic locus: RUVBL2 (human) mapping to 19q13.33; Ruvbl2 (mouse) mapping to 7 B4.

SOURCE

Reptin 52 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Reptin 52 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-34751 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-34751 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Reptin 52 (N-20) is recommended for detection of Reptin 52 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Reptin 52 (N-20) is also recommended for detection of Reptin 52 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Reptin 52 siRNA (h): sc-43544, Reptin 52 siRNA (m): sc-45513, Reptin 52 shRNA Plasmid (h): sc-43544-SH, Reptin 52 shRNA Plasmid (m): sc-45513-SH, Reptin 52 shRNA (h) Lentiviral Particles: sc-43544-V and Reptin 52 shRNA (m) Lentiviral Particles: sc-45513-V.

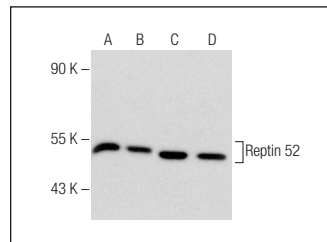
Reptin 52 (N-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications. Molecular Weight of Reptin 52: 51 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, Jurkat whole cell lysate: sc-2204 or Hep G2 cell lysate: sc-2227.

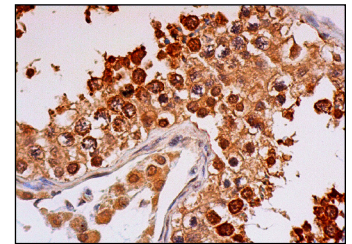
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Reptin 52 (N-20): sc-34751. Western blot analysis of Reptin 52 expression in Jurkat (A), U-2 OS (B), Hep G2 (C) and NIH/3T3 (D) whole cell lysates.



Reptin 52 (N-20): sc-34751. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts and Leydig cells.

SELECT PRODUCT CITATIONS

- Pfeiffer, M.J., et al. 2011. Proteomic analysis of mouse oocytes reveals 28 candidate factors of the "reprogrammome". *J. Proteome Res.* 10: 2140-2153.

STORAGE

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

PROTOCOLS

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



Try **Reptin 52 (B-5): sc-374135** or **Reptin 52 (B-9): sc-365326**, our highly recommended monoclonal alternatives to Reptin 52 (N-20).