

Reptin 52 (I-20): sc-34750

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 (I-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near 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-34750 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-34750 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Reptin 52 (I-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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Reptin 52 (I-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 (I-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

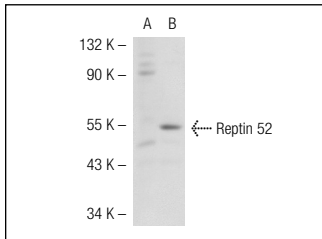
Molecular Weight of Reptin 52: 51 kDa.

Positive Controls: Reptin 52 (h3): 293T Lysate: sc-175104, mouse kidney extract: sc-2255 or SK-BR-3 cell lysate: sc-2218.

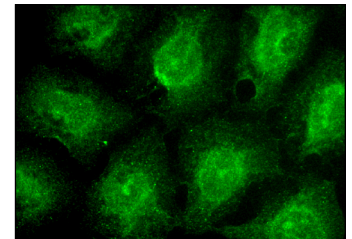
RECOMMENDED SECONDARY REAGENTS

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.

DATA



Reptin 52 (I-20): sc-34750. Western blot analysis of Reptin 52 expression in non-transfected: sc-117752 (A) and human Reptin 52 transfected: sc-175104 (B) 293T whole cell lysates.



Reptin 52 (I-20): sc-34750. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization.

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.

MONOS
Satisfaction
Guaranteed

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