

TIPIN (C-13): sc-160864



The Power to Question

BACKGROUND

TIPIN (Timeless interacting protein) is a 301 amino acid protein that localizes to both the nucleus and the cytoplasm and belongs to the CSM3 family. Expressed abundantly in liver, thymus, brain and gastrointestinal tract, TIPIN interacts with Timeless and is required for both normal cell cycle progression and for cell survival after DNA damage or replication stress. Additionally, TIPIN may be required to pass the ATR replication checkpoint that is induced by UV light or Hydroxyurea. Human TIPIN shares 72% amino acid identity with its mouse counterpart, suggesting a conserved role between species. The gene encoding TIPIN maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome.

REFERENCES

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4. Yoshizawa-Sugata, N. and Masai, H. 2007. Human Tim/Timeless-interacting protein, TIPIN, is required for efficient progression of S phase and DNA replication checkpoint. *J. Biol. Chem.* 282: 2729-2740.
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CHROMOSOMAL LOCATION

Genetic locus: TIPIN (human) mapping to 15q22.31.

SOURCE

TIPIN (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TIPIN of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160864 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TIPIN (C-13) is recommended for detection of TIPIN of 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).

Suitable for use as control antibody for TIPIN siRNA (h): sc-90290, TIPIN shRNA Plasmid (h): sc-90290-SH and TIPIN shRNA (h) Lentiviral Particles: sc-90290-V.

Molecular Weight (predicted) of TIPIN: 35 kDa.

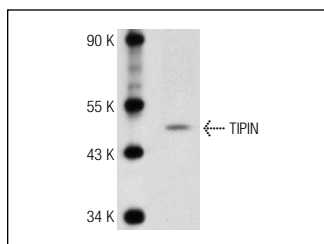
Molecular Weight (observed) of TIPIN: 48 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or SHP-77 whole cell lysate.

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



TIPIN (C-13): sc-160864. Western blot analysis of TIPIN expression in SHP-77 whole cell lysate.

RESEARCH USE

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