SANTA CRUZ BIOTECHNOLOGY, INC.

NNP-1B (H-300): sc-134953



BACKGROUND

NNP-1B (novel nuclear protein 1B), also known as RRP1-like protein B (Rrp1b) in mouse and rat, is a 758 amino acid protein belonging to the RRP1 family. Localized to the nucleolus, NNP-1B is expressed as two isoforms produced by alternative splicing. Ubiquitously expressed, the N-terminus of NNP-1B is 80% homologous to fellow RRP1 family member NNP-1, but has a divergent C-terminus. NNP-1 has been found to play an important role in the generation of 28S rRNA in the late processing steps of ribosome biogenesis. At the end of mitosis, nucleolar proteins assemble in a sequential order during the rebuilding of the nucleolus. NNP-1 assembles after Fibrillarin and C23, and simultaneously with B23 and POP1 in the prenucleolar body pathway.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RRP1B (human) mapping to 21q22.3; Rrp1b (mouse) mapping to 17 B1.

SOURCE

NNP-1B (H-300) is a rabbit polyclonal antibody raised against amino acids 459-758 mapping at the C-terminus of NNP-1B of human origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

NNP-1B (H-300) is recommended for detection of NNP-1B of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for NNP-1B siRNA (h): sc-91515, Rrp1b siRNA (m): sc-153131, NNP-1B shRNA Plasmid (h): sc-91515-SH, Rrp1b shRNA Plasmid (m): sc-153131-SH, NNP-1B shRNA (h) Lentiviral Particles: sc-91515-V and Rrp1b shRNA (m) Lentiviral Particles: sc-153131-V.

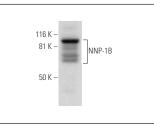
Molecular Weight of NNP-1B: 84 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, HeLa nuclear extract: sc-2120 or K-562 nuclear extract: sc-2130.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.





NNP-1B (H-300): sc-134953. Western blot analysis of NNP-1B expression in HEK293 whole cell lysate.

RESEARCH USE

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

MONOS Satisfation Guaranteed Try **NNP-1B (C-12): sc-398162**, our highly recommended monoclonal alternative to NNP-1B (H-300).