

# Nop10 (S-12): sc-104462

## BACKGROUND

Nop10, also known as NOLA3 (nucleolar protein family A member 3), is a 64 amino acid protein that localizes to the nucleolus, as well as to cajal bodies, and exists as a component of the multi-protein H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex. Working in tandem with other members of the H/ACA snoRNP complex, Nop10 plays an essential role in telomere maintenance and ribosome biogenesis and is also thought to be required for the proper processing and trafficking of the TERT (telomerase reverse transcriptase) holoenzyme. Defects in the gene encoding Nop10 are the cause of dyskeratosis congenita autosomal recessive (ARDKC), a rare and progressive bone marrow failure syndrome that is characterized by reticulated skin hyperpigmentation, nail dystrophy and mucosal leukoplakia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: NOP10 (human) mapping to 15q14; Nop10 (mouse) mapping to 2 E3.

## SOURCE

Nop10 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Nop10 of human origin.

## RESEARCH USE

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

## 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-104462 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Nop10 (S-12) is recommended for detection of Nop10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Nop10 siRNA (h): sc-90082, Nop10 siRNA (m): sc-106308, Nop10 shRNA Plasmid (h): sc-90082-SH, Nop10 shRNA Plasmid (m): sc-106308-SH, Nop10 shRNA (h) Lentiviral Particles: sc-90082-V and Nop10 shRNA (m) Lentiviral Particles: sc-106308-V.

Molecular Weight of Nop10: 8 kDa.

## 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) 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **Nop10 (6H6): sc-517170**, our highly recommended monoclonal alternative to Nop10 (S-12).