

NO66 (C-18): sc-70296

BACKGROUND

The nucleolus is an essential component of the nucleus and it functions in the synthesis, processing and assembly of ribosomal RNAs with ribosomal proteins. NO66 (nucleolar protein 66), also known as C14orf169, is a 641 amino acid protein that localizes to nucleoplasmic foci and nucleoli, with specific localization to a granular part of the nucleolus. Expressed throughout the body, NO66 is thought to play a role in remodeling of certain heterochromatic regions, as well as in the synthesis of the large ribosomal subunit, suggesting involvement in replication-related events. NO66 contains one JmjC domain, two putative nuclear localization signals and several potential phosphorylation sites. Immunohistochemical analysis indicates that NO66 localizes to different subnuclear compartments in different cell lines. Homologs of NO66 have been detected in cell lines from a variety of species. NO66 may be a novel therapeutic target oncogene for lung cancer.

CHROMOSOMAL LOCATION

Genetic locus: C14orf169 (human) mapping to 14q24.3; 2410016006Rik (mouse) mapping to 12 D1.

SOURCE

NO66 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of NO66 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-70296 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-70296 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

NO66 (C-18) is recommended for detection of NO66 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).

Suitable for use as control antibody for NO66 siRNA (h): sc-75939, NO66 siRNA (m): sc-75940, NO66 shRNA Plasmid (h): sc-75939-SH, NO66 shRNA Plasmid (m): sc-75940-SH, NO66 shRNA (h) Lentiviral Particles: sc-75939-V and NO66 shRNA (m) Lentiviral Particles: sc-75940-V.

NO66 (C-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

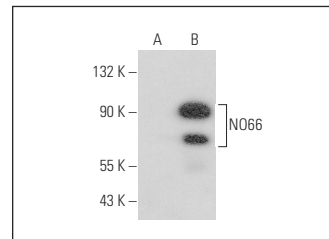
Molecular Weight of NO66: 66 kDa.

Positive Controls: NO66 (h): 293 Lysate: sc-111061 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.

DATA



NO66 (C-18): sc-70296. Western blot analysis of NO66 expression in non-transfected: sc-117750 (A) and human NO66 transfected: sc-111061 (B) whole cell lysates.

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.


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Satisfaction
Guaranteed

Try **NO66 (E-8): sc-390421** or **NO66 (3354C5a): sc-81341**, our highly recommended monoclonal alternatives to NO66 (C-18).