

NO66 (H-236): sc-292863

BACKGROUND

The nucleolus is an essential component of the nucleus which functions in the synthesis, processing and assembly of ribosomal RNAs with ribosomal proteins. NO66 (nucleolar protein 66 kDa), also known as C14orf169 (chromosome 14 open reading frame 169), 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 the 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.

REFERENCES

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2. Eilbracht, J., Kneissel, S., Hofmann, A. and Schmidt-Zachmann, M.S. 2005. Protein NO52—a constitutive nucleolar component sharing high sequence homologies to protein NO66. *Eur. J. Cell Biol.* 84: 279-294.
3. Suzuki, C., Takahashi, K., Hayama, S., Ishikawa, N., Kato, T., Ito, T., Tsuchiya, E., Nakamura, Y. and Daigo, Y. 2007. Identification of Myc-associated protein with JmjC domain as a novel therapeutic target oncogene for lung cancer. *Mol. Cancer Ther.* 6: 542-551.
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5. Sirri, V., Urcuqui-Inchima, S., Roussel, P. and Hernandez-Verdun, D. 2007. Nucleolus: the fascinating nuclear body. *Histochem. Cell Biol.* 129: 13-31.

CHROMOSOMAL LOCATION

Genetic locus: C14orf169 (human) mapping to 14q24.3; NO66 (mouse) mapping to 12 D3.

SOURCE

NO66 (H-236) is a rabbit polyclonal antibody raised against amino acids 406-641 mapping at 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.

STORAGE

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

APPLICATIONS

NO66 (H-236) 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).

NO66 (H-236) is also recommended for detection of NO66 in additional species, including equine and bovine.

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.

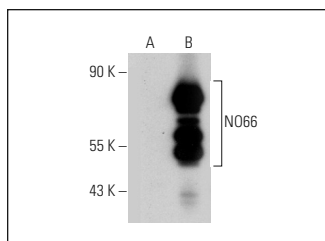
Molecular Weight of NO66: 66 kDa.

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

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.

DATA



NO66 (H-236): sc-292863. Western blot analysis of NO66 expression in non-transfected: sc-110760 (A) and human NO66 transfected: sc-111061 (B) 293 whole cell lysates.

RESEARCH USE

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

MONOS
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Try **NO66 (E-8): sc-390421** or **NO66 (3354C5a): sc-81341**, our highly recommended monoclonal alternatives to NO66 (H-236).