

NSUN6 (D-5): sc-393446

BACKGROUND

The nucleolus consists of a number of specific proteins that play a critical role in the assembly of ribosomes, as well as in the maintenance and structural integrity of the nucleolus. NSUN6 (NOL1/NOP2/Sun domain family member 6), also known as NOPD1 (NOL1/NOP2/Sun and PUA domain-containing protein 1), is a 469 amino acid protein that belongs to the methyltransferase superfamily. NSUN6 contains 1 PUA domain and may have S-adenosyl-L-methionine-dependent methyl-transferase activity. The gene encoding NSUN6 maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie-tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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4. Nonneman, D. and Rohrer, G.A. 2004. Comparative mapping of human chromosome 10 to pig chromosomes 10 and 14. *Anim. Genet.* 35: 338-343.
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CHROMOSOMAL LOCATION

Genetic locus: NSUN6 (human) mapping to 10p12.31; Nsun6 (mouse) mapping to 2 A2.

SOURCE

NSUN6 (D-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 388-402 within an internal region of NSUN6 of human origin.

PRODUCT

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-393446 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-393446 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

NSUN6 (D-5) is recommended for detection of NSUN6 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 NSUN6 siRNA (h): sc-75968, NSUN6 siRNA (m): sc-75969, NSUN6 shRNA Plasmid (h): sc-75968-SH, NSUN6 shRNA Plasmid (m): sc-75969-SH, NSUN6 shRNA (h) Lentiviral Particles: sc-75968-V and NSUN6 shRNA (m) Lentiviral Particles: sc-75969-V.

NSUN6 (D-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

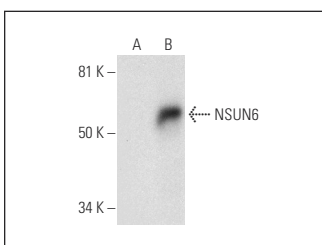
Molecular Weight of NSUN6: 52 kDa.

Positive Controls: NSUN6 (h): 293T Lysate: sc-115359.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



NSUN6 (D-5): sc-393446. Western blot analysis of NSUN6 expression in non-transfected: sc-117752 (A) and human NSUN6 transfected: sc-115359 (B) 293T 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.

RESEARCH USE

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