

NMD3 (N-13): sc-103081



The Power to Question

BACKGROUND

Ribosomal subunits are synthesized in the nucleus and mature 40S and 60S subunits are exported stoichiometrically into the cytoplasm. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. Ribosomal proteins have the ability to pass through the nuclear envelope in the native state, making them the largest of the structures accommodated by the nuclear pore complexes. Nuclear export of the 60S ribosomal subunit depends on the adapter protein NMD3, which contains a CRM-1-dependent leucine-rich nuclear export signal (NES) and a complex, dispersed nuclear localization signal (NLS). The gene encoding NMD3 is located on human chromosome 3, which encodes over 1,100 genes and contains a variety of human cancer related loci.

REFERENCES

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5. Braga, E.A., et al. 2003. New tumor suppressor genes in hot spots of human chromosome 3: new methods of identification. *Mol. Biol.* 37: 194-211.
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CHROMOSOMAL LOCATION

Genetic locus: NMD3 (human) mapping to 3q26.1; Nmd3 (mouse) mapping to 3 E1.

SOURCE

NMD3 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of NMD3 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.

Blocking peptide available for competition studies, sc-103081 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NMD3 (N-13) is recommended for detection of NMD3 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); non cross-reactive with other NMD family members.

NMD3 (N-13) is also recommended for detection of NMD3 in additional species, including equine and canine.

Suitable for use as control antibody for NMD3 siRNA (h): sc-78248, NMD3 siRNA (m): sc-150008, NMD3 shRNA Plasmid (h): sc-78248-SH, NMD3 shRNA Plasmid (m): sc-150008-SH, NMD3 shRNA (h) Lentiviral Particles: sc-78248-V and NMD3 shRNA (m) Lentiviral Particles: sc-150008-V.

Molecular Weight of NMD3: 58 kDa.

Positive Controls: mouse heart extract: sc-2254 or T-47D cell lysate: sc-2293.

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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **NMD3 (A-5): sc-515426**, our highly recommended monoclonal alternative to NMD3 (N-13).