

NOL6 (S-14): sc-161954

BACKGROUND

NOL6 (nucleolar protein 6), also known as NRAP or UTP22, is a 1,146 amino acid nucleolar protein that belongs to the NRAP family and is thought to be associated with rRNA. NOL6 may be involved in ribosome biogenesis and is expressed at high levels in spleen, colon, testis, brain, kidney and stomach, where it exists as four alternatively spliced isoforms, three of which are designated NOL6 α , β and γ . Human NOL6, shares 88% sequence identity with its mouse counterpart, suggesting a conserved role between species. The gene encoding NOL6 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

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CHROMOSOMAL LOCATION

Genetic locus: NOL6 (human) mapping to 9p13.3; Nol6 (mouse) mapping to 4 A5.

SOURCE

NOL6 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NOL6 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161954 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NOL6 (S-14) is recommended for detection of NOL6 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 NOL family members .

Suitable for use as control antibody for NOL6 siRNA (h): sc-92867, NOL6 siRNA (m): sc-150024, NOL6 shRNA Plasmid (h): sc-92867-SH, NOL6 shRNA Plasmid (m): sc-150024-SH, NOL6 shRNA (h) Lentiviral Particles: sc-92867-V and NOL6 shRNA (m) Lentiviral Particles: sc-150024-V.

Molecular Weight of NOL6: 128 kDa.

Positive Controls: 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) 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.