SANTA CRUZ BIOTECHNOLOGY, INC.

# NOP9 (A-16): sc-245293

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*The Power to Question*

## BACKGROUND

NOP9 (nucleolar protein 9), also known as C14orf21 or KIAA2021, is a 636 amino acid protein that contains 6 pumilio repeats and is encoded by a gene that maps to human chromosome 14q12. Chromosome 14 encodes the presinilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease. The SERPINA1 gene is located on chromosome 14 and when defective leads to the genetic disorder $\alpha$1-antitrypsin deficiency. This disorder is characterized by severe lung complications and liver dysfunction. Notably, the immunoglobulin heavy chain locus is found on chromosome 14 and has been identified as a fusion with the chromosome 19. encoded protein BCL3 in the (14;19) translocations found in a variety of B cell malignancies.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: Nop9 (mouse) mapping to 14 C3.

## SOURCE

NOP9 (A-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of NOP9 of mouse 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-245293 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

NOP9 (A-16) is recommended for detection of NOP9 of mouse and rat 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).

Suitable for use as control antibody for NOP9 siRNA (m): sc-108789, NOP9 shRNA Plasmid (m): sc-108789-SH and NOP9 shRNA (m) Lentiviral Particles: sc-108789-V.

Molecular Weight of NOP9: 69 kDa.

## 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.