SANTA CRUZ BIOTECHNOLOGY, INC.

NOP16 (JJ-39): sc-81866

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. It is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome. The NOP16 gene product has been provisionally designated NOP16 pending further characterization.

REFERENCES

1. Dixon, M.J., et al. 1991. The gene for Treacher Collins syndrome maps to the long arm of chromosome 5. Am. J. Hum. Genet. 49: 17-22.
2. Saltman, D.L., et al. 1993. A physical map of 15 loci on human chromosome 5q23-q33 by two-color fluorescence *in situ* hybridization. Genomics 16: 726-732.
3. Kadmon, M., et al. 2001. Duodenal adenomatosis in familial adenomatous polyposis coli. A review of the literature and results from the Heidelberg Polyposis Register. Int. J. Colorectal Dis. 16: 63-75.

CHROMOSOMAL LOCATION

Genetic locus: NOP16 (human) mapping to 5q35.2; Nop16 (mouse) mapping to 13 B1.

SOURCE

NOP16 (JJ-39) is a mouse monoclonal antibody raised against recombinant NOP16 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

NOP16 (JJ-39) is recommended for detection of NOP16 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), immunohistochemistry (including paraffin-embedded sections) (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 NOP16 siRNA (h): sc-91736, NOP16 siRNA (m): sc-142782, NOP16 shRNA Plasmid (h): sc-91736-SH, NOP16 shRNA Plasmid (m): sc-142782-SH, NOP16 shRNA (h) Lentiviral Particles: sc-91736-V and NOP16 shRNA (m) Lentiviral Particles: sc-142782-V.

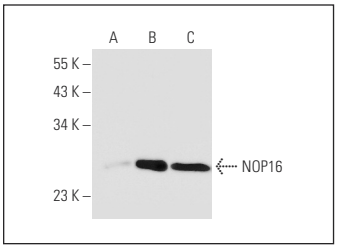
Molecular Weight of NOP16: 21 kDa.

Positive Controls: Raji whole cell lysate, K-562 whole cell lysate: sc-2203 or NOP16 (h): 293T Lysate: sc-115667.

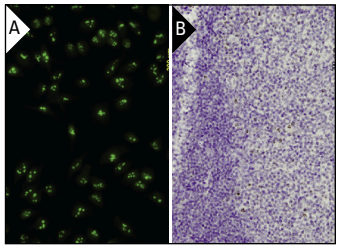
RECOMMENDED SUPPORT REAGENTS

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 A/G PLUS-Agarose: sc-2003 (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. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



NOP16 (JJ-39): sc-81866. Western blot analysis of NOP16 expression in non-transfected 293T: sc-117752 (**A**), human NOP16 transfected 293T: sc-115667 (**B**) and K-562 (**C**) whole cell lysates.



NOP16 (JJ-39): sc-81866. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nucleolar localization (**A**). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human tonsil tissue showing nuclear localization (**B**).

SELECT PRODUCT CITATIONS

1. Jiang, X. and Huang, Y. 2020. Curcumin derivative C086 combined with cisplatin inhibits proliferation of osteosarcoma cells. Med. Sci. Monit. 26: e924507.

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 for detailed protocols and support products.