# NAT-13 (h2): 293T Lysate: sc-175988



The Power to Question

## **BACKGROUND**

Acetyltransferases and deacetylases are protein groups most often associated with oncogenesis and cell cycle regulation. NAT-13 (N-acetyltransferase 13), also known as NAA50 (N $_{\alpha}$ -acetyltransferase 50, NatE catalytic subunit), MAK3, NAT5 (N-acetyltransferase 5) or SAN, is a 169 amino acid cytoplasmic protein belonging to the acetyltransferase family and GNAT subfamily. Existing as two alternatively spliced isoforms, NAT-13 interacts with NARG1 and ARD1 as a possible catalytic component of the ARD1-NARG1 complex. NAT-13 is also known to interact with MAK10 and is encoded by a gene that maps to human chromosome 3q13.2.

# **REFERENCES**

- Polevoda, B. and Sherman, F. 2003. N-terminal acetyltransferases and sequence requirements for N-terminal acetylation of eukaryotic proteins. J. Mol. Biol. 325: 595-622.
- Arnesen, T., Anderson, D., Torsvik, J., Halseth, H.B., Varhaug, J.E. and Lillehaug, J.R. 2006. Cloning and characterization of hNAT5/hSAN: an evolutionarily conserved component of the NatA protein N-α-acetyltransferase complex. Gene 371: 291-295.
- Hou, F., Chu, C.W., Kong, X., Yokomori, K. and Zou, H. 2007. The acetyltransferase activity of San stabilizes the mitotic cohesin at the centromeres in a shugoshin-independent manner. J. Cell Biol. 177: 587-597.
- Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 610834. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 5. Polevoda, B., Arnesen, T. and Sherman, F. 2009. A synopsis of eukaryotic  $N\alpha$ -terminal acetyltransferases: nomenclature, subunits and substrates. BMC Proc. 3: S2.
- Starheim, K.K., Gromyko, D., Evjenth, R., Ryningen, A., Varhaug, J.E., Lillehaug, J.R. and Arnesen, T. 2009. Knockdown of human N alpha-terminal acetyltransferase complex C leads to p53-dependent apoptosis and aberrant human Arl8b localization. Mol. Cell. Biol. 2: 3569-3581.

## CHROMOSOMAL LOCATION

Genetic locus: NAA50 (human) mapping to 3q13.2.

#### **PRODUCT**

NAT-13 (h): 293T Lysate represents a lysate of human NAT-13 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

# **APPLICATIONS**

NAT-13 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive NAT-13 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.

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