

NAT-5 (E-17): sc-65145

BACKGROUND

Acetyltransferases and deacetylases are protein groups most often associated with oncogenesis and cell cycle regulation. NAT-5 (N-acetyltransferase 5) is an intracellular protein involved in N-acetylation, particularly the acetylation of histones. NAT-5 is a component of the ARD1-NAT-1 (human arrest defective 1-N-acetyltransferase) complex, which acetylates the α -amino groups of proteins during translation. NAT-5 contains an enzymatic acetyltransferase domain, which makes it an active component of the complex. ARD1 and NAT-1 have both shown upregulation in certain cancers and may facilitate the metastasis of papillary thyroid carcinomas.

REFERENCES

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- 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.

CHROMOSOMAL LOCATION

Genetic locus: NAA20 (human) mapping to 20p11.23; Naa20 (mouse) mapping to 2 G1.

SOURCE

NAT-5 (E-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NAT-5 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-65145 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

NAT-5 (E-17) is recommended for detection of NAT-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

NAT-5 (E-17) is also recommended for detection of NAT-5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for NAT-5 siRNA (h): sc-62662, NAT-5 siRNA (m): sc-62663, NAT-5 shRNA Plasmid (h): sc-62662-SH, NAT-5 shRNA Plasmid (m): sc-62663-SH, NAT-5 shRNA (h) Lentiviral Particles: sc-62662-V and NAT-5 shRNA (m) Lentiviral Particles: sc-62663-V.

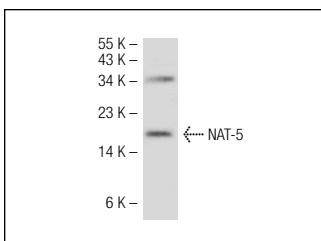
Molecular Weight of NAT-5: 20 kDa.

Positive Controls: F9 cell lysate: sc-2245 or HL-60 whole cell lysate: sc-2209.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



NAT-5 (E-17): sc-65145. Western blot analysis of NAT-5 expression in F9 whole cell lysate.

RESEARCH USE

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

MONOS
Satisfaction
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Try **NAT-5 (36-8): sc-100645**, our highly recommended monoclonal alternative to NAT-5 (E-17).