NAT10 Rabbit monoclonal antibody

Catalog: MB66255 Host: Rabbit Reactivity: Human, Rat

BackGround:

N-acetyltransferase 10 (NAT10), also known as human N-acetyltransferase-like protein (hALP), is an acetyl-transferase which increases telomerase activity through the activation of the TERT promoter. NAT10 localizes to the midbody in late phase mitosis to help achieve cytokinesis. It has been found that DNA damage can actually increase NAT10-dependent acetylation of alpha-tubulin, resulting in increased stability of the protein. This increased stability of microtubules has been linked to the sequestration of the nuclear import factor Transportin-1 in the premature aging disease, progeria. NAT10 can also function as an acetyltransferase for both rRNA and mRNA. The acetylation of the 18 S rRNA helps in rRNA processing and ribosome biogenesis, and this process can be disrupted by opposing activity of the deacetylase SirT1 in response to stress. mRNA acetylation by NAT10 plays a role in translation efficiency and mRNA stability. NAT10 is overexpressed in many different cancer types, making it a good potential therapeutic target.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 120 kDa

Swiss-Prot:

Q9H0A0

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100), IP (1/10 - 1/50)

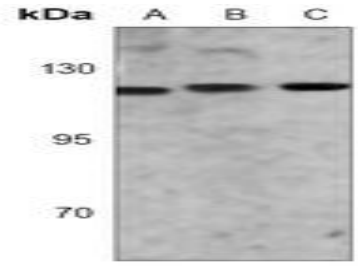
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

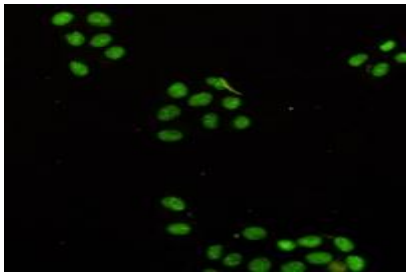
Specificity:

Recognizes endogenous levels of NAT10 protein.

DATA:



Western blot analysis of NAT10 expression in Jurkat (A), C6 (B), Hela (C) whole cell lysates.



Immunofluorescent analysis of NAT10 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

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

Bioworld Technology, Inc.
Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416,USA.
Email: info@bioworlde.com
Tel: 6123263284
Fax: 6122933841

Bioworld technology, co. Ltd.
Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.
Email: info@biogot.com
Tel: 0086-025-68037686
Fax: 0086-025-68035151