

Rabbit anti-Human NAT10 Polyclonal Antibody | anti-NAT10 antibody

Anti-NAT10 Antibody Picoband

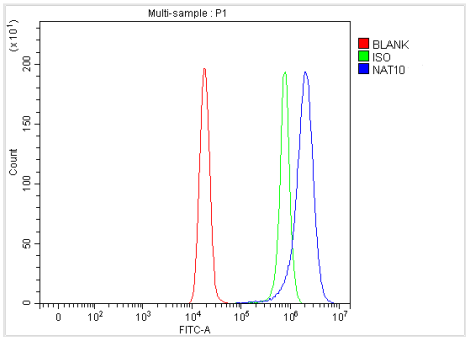
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127352	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NAT10; Polyclonal Antibody; Anti-NAT10 Antibody Picoband; AP-2 complex subunit mu; ELAV like RNA binding protein 2; ELAV-like protein 2; ELAV-like neuronal protein 1; Hu-antigen B; HuB; Nervous system-specific RNA-binding protein Hel-N1; ELAVL2; HUB; anti-NAT10 antibody

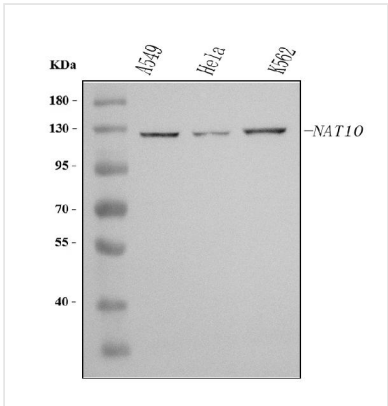
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain; neural-specific.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NAT10 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NAT10 recombinant protein (Position: Q22-L740).
Subcellular Localization	Cytoplasm, Nucleus, Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Binds RNA. Seems to recognize a GAAA motif. Can bind to its own 3'-UTR, the FOS 3'-UTR and the ID 3'-UTR.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



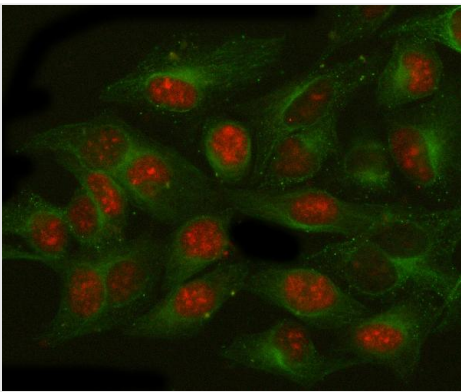
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Hela cells using anti-NAT10 antibody (AAA127352).Overlay histogram showing Hela cells stained with AAA127352 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NAT10 Antibody (AAA127352, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of NAT10 using anti-NAT10 antibody (AAA127352).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human A549 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human K562 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NAT10 antigen affinity purified polyclonal antibody (#AAA127352) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NAT10 at approximately 120 kDa. The expected band size for NAT10 is at 120 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of NAT10 using anti-NAT10 antibody (AAA127352) and anti-Beta Tubulin antibody (M01857-3).NAT10 was detected in immunocytochemical section of HELA cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NAT10 Antibody (AAA127352) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-NAT10 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NAT10 antibody	Primary Antibodies; DNA/RNA; Epigenetics and Nuclear Signaling; RNA Processing

References	1. Gawin, B., Niederfuhr, A., Schumacher, N., Hummerich, H., Little, P. F. R., Gessler, M. A 7.5 Mb sequence-ready PAC contig and gene expression map of human chromosome 11p13-p14.1. Genome Res. 9: 1074-1086, 1999.2. Ito, S., Horikawa, S., Suzuki, T., Kawauchi, H., Tanaka, Y., Suzuki, T., Suzuki, T. Human NAT10 is an ATP-dependent RNA acetyltransferase responsible for N4-acetylcytidine formation in 18S ribosomal RNA (rRNA). J. Biol. Chem. 289: 35724-35730, 2014. 3. Larrieu, D., Britton, S., Demir, M., Rodriguez, R., Jackson, S. P. Chemical inhibition of NAT10 corrects defects of laminopathic cells. Science 344: 527-532, 2014.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	313104140
NCBI GeneID	55226
UniProt Accession #	Q9H0A0; Q86WK5; Q9C0F4; Q9HA61; Q9NVF2; B4DFD5; E7ESU4; E9PMN9
Molecular Weight	1025
NCBI Official Full Name	N-acetyltransferase 10
NCBI Official Synonym Full Names	N-acetyltransferase 10 (GCN5-related)
NCBI Official Symbol	NAT10
NCBI Official Synonym Symbols	ALP; NET43
NCBI Protein Information	N-acetyltransferase 10; N-acetyltransferase-like protein
UniProt Protein Name	N-acetyltransferase 10
UniProt Gene Name	NAT10
UniProt Synonym Gene Names	ALP; KIAA1709
UniProt Entry Name	NAT10_HUMAN

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