

Rabbit NAT10 Polyclonal Antibody | anti-NAT10 antibody

NAT10 Antibody (N-Term)

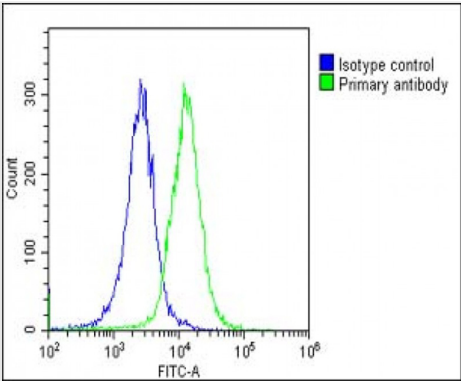
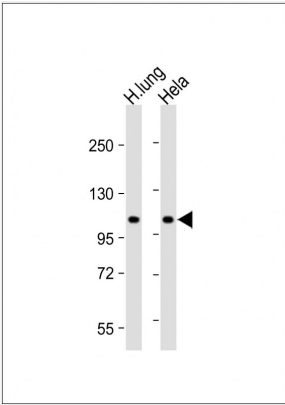
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290896	Rabbit	Human Predicted: Mouse	ELISA, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

NAT10; Polyclonal Antibody; NAT10 Antibody (N-Term); Purified Rabbit Polyclonal Antibody (Pab); N-acetyltransferase 10; 2.3.1.-; ALP; KIAA1709; anti-NAT10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted: Mouse
Clonality	Polyclonal
Isotype	Ig
Specificity	This NAT10 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 146-178 amino acids from the mouse region of mouse NAT10.
Purity/Purification	Purified through a protein A column, followed by peptide affinity purification.
Form/Format	Supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	953
Applicable Applications for anti-NAT10 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry)
Antigen Type	Synthesized Peptide
Antigen Source	Human
Cellular Location	Nucleus, nucleolus {ECO:0000255 HAMAP- Rule:MF_03211, ECO:0000269 PubMed:12429849, ECO:0000269 PubMed:14592445, ECO:0000269 PubMed:19303003, ECO:0000269 PubMed:25653167}. Note=Nucleolar in interphase and redistributes to the perichromosomal layer and to the midbody during telophase.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Overlay histogram showing Hela cells stained with AP22316a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22316a, 1:25 dilution) for 60 min at 37 degree C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37 degree C. Isotype control antibody (blue line) was rabbit IgG1 (1μg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

ADDITIONAL INFORMATION

Related Product Information for anti-NAT10 antibody	Description: RNA cytidine acetyltransferase with specificity toward both 18S rRNA and tRNAs (PubMed:25653167). Catalyzes the formation of N(4)-acetylcytidine (ac4C) at positions 1337 and 1842 in 18S rRNA (By similarity). Required for early nucleolar cleavages of precursor rRNA at sites A0, A1 and A2 during 18S rRNA synthesis (PubMed:25653167). Catalyzes the formation of ac4C in serine and leucine tRNAs (By similarity). Requires the tRNA-binding adapter protein THUMBD1 for full tRNA acetyltransferase activity but not for 18S rRNA acetylation (PubMed:25653167). Can acetylate both histones and microtubules. Histone acetylation may regulate transcription and mitotic chromosome de-condensation. Activates telomerase activity by stimulating the transcription of TERT, and may also regulate telomerase function by affecting the balance of telomerase subunit assembly, disassembly, and localization. Acetylates alpha-tubulin, which may affect microtubule stability and cell division (PubMed:14592445, PubMed:17631499, PubMed:18082603, PubMed:19303003). Bio Background: Has protein acetyltransferase activity in vitro. Can acetylate both histones and microtubules. Histone acetylation may regulate transcription and mitotic chromosome de-condensation. Activates telomerase activity by stimulating the transcription of TERT, and may also regulate telomerase function by affecting the balance of telomerase subunit assembly, disassembly, and localization. Acetylates alpha-tubulin, which may affect microtubule stability and cell division.
Product Categories/Family for anti-NAT10 antibody	Primary Antibodies; Cell Biology; Signal Transduction
References	Nagase T.,et al.DNA Res. 7:347-355(2000). Wiemann S.,et al.Genome Res. 11:422-435(2001). Ota T.,et al.Nat. Genet. 36:40-45(2004). Taylor T.D.,et al.Nature 440:497-500(2006). Lv J.,et al.Biochem. Biophys. Res. Commun. 311:506-513(2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	221316741
NCBI GeneID	55226
NCBI Accession #	NP_001137502.1
NCBI GenBank Nucleotide #	NM_001144030.1
UniProt Accession #	Q9H0A0; Q86WK5; Q9C0F4; Q9HA61; Q9NVF2; B4DFD5; E7ESU4; E9PMN9
Molecular Weight	115730
NCBI Official Full Name	RNA cytidine acetyltransferase isoform b

NCBI Official Synonym Full Names	N-acetyltransferase 10
NCBI Official Symbol	NAT10
NCBI Official Synonym Symbols	ALP; Kre33; NET43
NCBI Protein Information	RNA cytidine acetyltransferase
UniProt Protein Name	RNA cytidine acetyltransferase
UniProt Gene Name	NAT10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nat10-antibody-western-blot-flow-cytometry-elisa/290896>