

NAT13 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5060b

Product Information

Application	FC, WB, E
Primary Accession	Q9GZZ1
Other Accession	Q6GP53 , Q6PGB6 , Q6DBY2 , Q0IIJ0
Reactivity	Human
Predicted	Bovine, Zebrafish, Mouse, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26019
Calculated MW	19398
Antigen Region	117-146

Additional Information

Gene ID	80218
Other Names	N-alpha-acetyltransferase 50, 231-, N-acetyltransferase 13, N-acetyltransferase 5, hNAT5, N-acetyltransferase san homolog, hSAN, NatE catalytic subunit, NAA50, MAK3, NAT13, NAT5
Target/Specificity	This NAT13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 117-146 amino acids from the C-terminal region of human NAT13.
Dilution	FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NAT13 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NAA50 (HGNC:29533)
Function	N-alpha-acetyltransferase that acetylates the N-terminus of proteins that

retain their initiating methionine (PubMed:[19744929](#), PubMed:[21900231](#), PubMed:[22311970](#), PubMed:[27484799](#)). Has a broad substrate specificity: able to acetylate the initiator methionine of most peptides, except for those with a proline in second position (PubMed:[27484799](#)). Also displays N-epsilon-acetyltransferase activity by mediating acetylation of the side chain of specific lysines on proteins (PubMed:[19744929](#)). Autoacetylates in vivo (PubMed:[19744929](#)). The relevance of N-epsilon-acetyltransferase activity is however unclear: able to acetylate H4 in vitro, but this result has not been confirmed in vivo (PubMed:[19744929](#)). Component of N-alpha-acetyltransferase complexes containing NAA10 and NAA15, which has N-alpha-acetyltransferase activity (PubMed:[16507339](#), PubMed:[27484799](#), PubMed:[29754825](#), PubMed:[32042062](#)). Does not influence the acetyltransferase activity of NAA10 (PubMed:[16507339](#), PubMed:[27484799](#)). However, it negatively regulates the N-alpha-acetyltransferase activity of the N-terminal acetyltransferase A complex (also called the NatA complex) (PubMed:[32042062](#)). The multiprotein complexes probably constitute the major contributor for N-terminal acetylation at the ribosome exit tunnel, with NAA10 acetylating all amino termini that are devoid of methionine and NAA50 acetylating other peptides (PubMed:[16507339](#), PubMed:[27484799](#)). Required for sister chromatid cohesion during mitosis by promoting binding of CDCA5/sororin to cohesin: may act by counteracting the function of NAA10 (PubMed:[17502424](#), PubMed:[27422821](#)).

Cellular Location

Cytoplasm. Nucleus Note=Localizes to the cytoplasm in interphase cells (PubMed:[17502424](#))

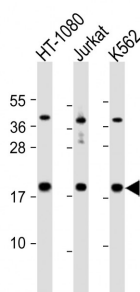
Background

NAT13 is probable catalytic component of the ARD1A-NARG1 complex which displays alpha (N-terminal) acetyltransferase activity.

References

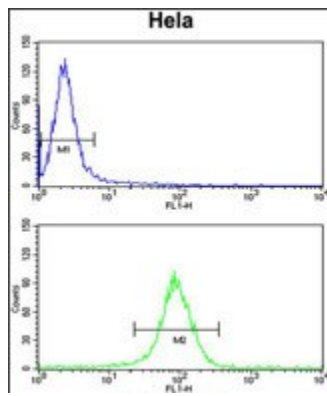
Starheim, K.K., et al. Mol. Cell. Biol. 29(13):3569-3581(2009)
Polevoda, B., et al. BMC Proc 3 SUPPL 6, S2 (2009)
Hou, F., et al. J. Cell Biol. 177(4):587-597(2007)

Images



All lanes : Anti-NAT13 Antibody (C-term) at 1:1000 dilution
Lane 1: HT-1080 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

NAT13 Antibody (C-term) (Cat.#AP5060b) flow cytometry analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the



analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.