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NAT13 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5060b

Specification

NAT13 Antibody (C-term) - 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**
Calculated MW	**19398**
Antigen Region	**117-146**

NAT13 Antibody (C-term) - 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.

NAT13 Antibody (C-term) - 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)

NAT13 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NAT13 Antibody (C-term) - Images

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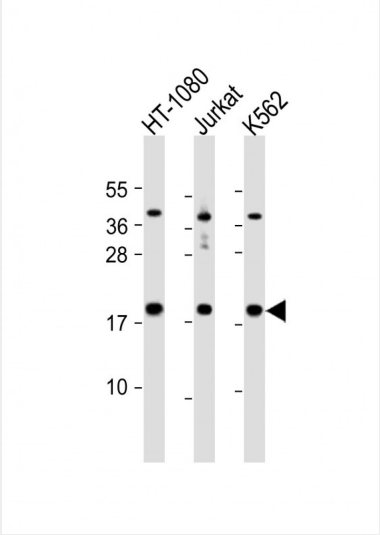
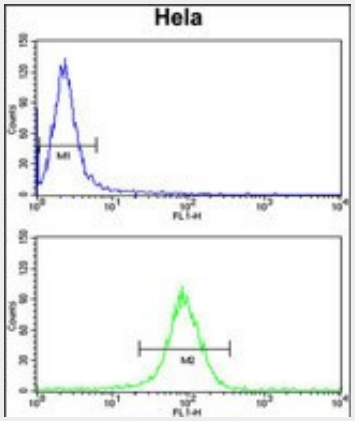


All lanes : Anti-NAT13 Antibody (C-term) at 1:1000 dilution Lane 1: HT-1080 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19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

NAT13 Antibody (C-term) - Background

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

NAT13 Antibody (C-term) - 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)