

**NAT13 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP5060b****Specification**

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**NAT13 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O9GZZ1](#)**NAT13 Antibody (C-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NAT13 Antibody (C-term) Blocking Peptide - Protein Information**Name NAA50 ([HGNC:29533](#))**Function**

N-alpha-acetyltransferase that acetylates the N-terminus of proteins that retain their initiating methionine (PubMed:<a href="http://www.uniprot.org/citations/19744929" target="\_blank">19744929</a>, PubMed:<a href="http://www.uniprot.org/citations/22311970" target="\_blank">22311970</a>, PubMed:<a href="http://www.uniprot.org/citations/21900231" target="\_blank">21900231</a>, PubMed:<a href="http://www.uniprot.org/citations/27484799" target="\_blank">27484799</a>). Has a broad substrate specificity: able to acetylate the initiator methionine of most peptides, except for those with a proline in second position (PubMed:<a href="http://www.uniprot.org/citations/27484799" target="\_blank">27484799</a>). Also displays N-epsilon-acetyltransferase activity by mediating acetylation of the side chain of specific lysines on proteins (PubMed:<a href="http://www.uniprot.org/citations/19744929" target="\_blank">19744929</a>). Autoacetylates in vivo (PubMed:<a href="http://www.uniprot.org/citations/19744929" target="\_blank">19744929</a>). 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:<a href="http://www.uniprot.org/citations/19744929" target="\_blank">19744929</a>). Component of N-alpha- acetyltransferase complexes containing NAA10 and NAA15, which has N-alpha-acetyltransferase activity (PubMed:<a href="http://www.uniprot.org/citations/16507339" target="\_blank">16507339</a>).

target="\_blank">16507339</a>, PubMed:<a href="http://www.uniprot.org/citations/29754825" target="\_blank">29754825</a>, PubMed:<a href="http://www.uniprot.org/citations/27484799" target="\_blank">27484799</a>, PubMed:<a href="http://www.uniprot.org/citations/32042062" target="\_blank">32042062</a>). Does not influence the acetyltransferase activity of NAA10 (PubMed:<a href="http://www.uniprot.org/citations/16507339" target="\_blank">16507339</a>, PubMed:<a href="http://www.uniprot.org/citations/27484799" target="\_blank">27484799</a>). However, it negatively regulates the N-alpha-acetyltransferase activity of the N-terminal acetyltransferase A complex (also called the NatA complex) (PubMed:<a href="http://www.uniprot.org/citations/32042062" target="\_blank">32042062</a>). 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:<a href="http://www.uniprot.org/citations/16507339" target="\_blank">16507339</a>, PubMed:<a href="http://www.uniprot.org/citations/27484799" target="\_blank">27484799</a>). Required for sister chromatid cohesion during mitosis by promoting binding of CDCA5/sororin to cohesin: may act by counteracting the function of NAA10 (PubMed:<a href="http://www.uniprot.org/citations/17502424" target="\_blank">17502424</a>, PubMed:<a href="http://www.uniprot.org/citations/27422821" target="\_blank">27422821</a>).

### **Cellular Location**

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

### **NAT13 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **NAT13 Antibody (C-term) Blocking Peptide - Images**

### **NAT13 Antibody (C-term) Blocking Peptide - Background**

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

### **NAT13 Antibody (C-term) Blocking Peptide - 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)