

NMT1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2519a**Specification**

NMT1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession
Other Accession[P30419](#)
[NP_066565](#)**NMT1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 4836**Other Names**

Glycylpeptide N-tetradecanoyltransferase 1, Myristoyl-CoA:protein N-myristoyltransferase 1, NMT 1, Type I N-myristoyltransferase, Peptide N-myristoyltransferase 1, NMT1, NMT

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2519a](/product/products/AP2519a) was selected from the N-term region of human NMT1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

NMT1 Antibody (N-term) Blocking Peptide - Protein Information**Name** NMT1 {ECO:0000303|PubMed:9506952, ECO:0000312|HGNC:HGNC:7857}**Function**

Adds a myristoyl group to the N-terminal glycine residue of certain cellular and viral proteins (PubMed: [22865860](http://www.uniprot.org/citations/22865860), PubMed: [25255805](http://www.uniprot.org/citations/25255805), PubMed: [32686708](http://www.uniprot.org/citations/32686708), PubMed: [34999170](http://www.uniprot.org/citations/34999170), PubMed: [9353336](http://www.uniprot.org/citations/9353336), PubMed: [9506952](http://www.uniprot.org/citations/9506952)). Also able to mediate N-terminal lysine myristoylation of proteins: catalyzes myristoylation of ARF6 on both 'Gly-2' and 'Lys-3' (PubMed: [32103017](http://www.uniprot.org/citations/32103017), PubMed: [32111831](http://www.uniprot.org/citations/32111831)).

target="_blank">32111831). Lysine myristoylation is required to maintain ARF6 on membranes during the GTPase cycle (PubMed:32103017).

Cellular Location

Cytoplasm. Cytoplasm, cytosol. Membrane; Peripheral membrane protein Note=Copurifies with ribosomes.

Tissue Location

Heart, gut, kidney, liver and placenta.

NMT1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NMT1 Antibody (N-term) Blocking Peptide - Images**NMT1 Antibody (N-term) Blocking Peptide - Background**

N-myristoyltransferase (NMT) catalyzes the reaction of N-terminal myristoylation of many signaling proteins. It transfers myristic acid from myristoyl coenzyme A to the amino group of a protein's N-terminal glycine residue. Biochemical evidence indicates the presence of several distinct NMTs, varying in apparent molecular weight and /or subcellular distribution. The predicted 498-amino acid of human NMT2 protein shares 77% and 96% sequence identity with human NMT1 and mouse Nmt2 comprise two distinct families of N-myristoyltransferases.

NMT1 Antibody (N-term) Blocking Peptide - References

Lindwasser, O.W., et al., Proc. Natl. Acad. Sci. U.S.A. 99(20):13037-13042 (2002). Shiraishi, T., et al., Biochem. Biophys. Res. Commun. 282(5):1201-1205 (2001). Paillart, J.C., et al., J. Virol. 73(4):2604-2612 (1999). Ono, A., et al., J. Virol. 73(5):4136-4144 (1999). Hermida-Matsumoto, L., et al., J. Virol. 73(3):1902-1908 (1999).