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ME11A Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP13172a

Specification

ME11A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9BV86

ME11A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 28989

Other Names
N-terminal Xaa-Pro-Lys N-methyltransferase 1, Alpha N-terminal protein methyltransferase 1A, Methyltransferase-like protein 11A, N-terminal RCC1 methyltransferase, X-Pro-Lys N-terminal protein methyltransferase 1A, NTM1A, N-terminal Xaa-Pro-Lys N-methyltransferase 1, N-terminally processed, NTMT1, C9orf32, METTL11A, NRMT, NRMT1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13172a was selected from the N-term region of ME11A. 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.

ME11A Antibody (N-term) Blocking Peptide - Protein Information

Name NTMT1

Synonyms C9orf32, METTL11A, NRMT, NRMT1

Function
Distributive alpha-N-methyltransferase that methylates the N- terminus of target proteins containing the N-terminal motif [Ala/Gly/Pro/Ser]-Pro-Lys when the initiator Met is cleaved. Specifically catalyzes mono-, di- or tri-methylation of the exposed alpha-amino group of the Ala, Gly or Ser residue in the [Ala/Gly/Ser]- Pro-Lys motif and mono- or di-methylation of Pro in the Pro-Pro-Lys motif. Some of the substrates may be primed by NTMT2-mediated monomethylation (PubMed:24090352). Catalyzes the trimethylation of the N-terminal Gly in CENPA (after removal of Met-1). Responsible for the N-terminal methylation of KLHL31, MYL2, MYL3, RB1, RCC1, RPL23A and SET. Required

during mitosis for normal bipolar spindle formation and chromosome segregation via its action on RCC1.

Cellular Location
Nucleus. Note=Predominantly nuclear (PubMed:24090352)

ME11A Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ME11A Antibody (N-term) Blocking Peptide - Images

ME11A Antibody (N-term) Blocking Peptide - Background

The METTL11A gene encodes an N-terminal methyltransferasefor the RAN (MIM 601179) guanine nucleotide exchange factorregulator of chromosome condensation 1 (RCC1; MIM 179710). METTL11Aenzyme alpha-N-methylates other protein targets such as SET (MIM600960) and RB (MIM 180200).

ME11A Antibody (N-term) Blocking Peptide - References

Tooley, C.E., et al. Nature 466(7310):1125-1128(2010)Lehner, B., et al. Genome Res. 14(7):1315-1323(2004)Humphray, S.J., et al. Nature 429(6990):369-374(2004)Hu, R.M., et al. Proc. Natl. Acad. Sci. U.S.A. 97(17):9543-9548(2000)