

MET10 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10007b**Specification**

MET10 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O86W50](#)
Other Accession [NP_076991.3](#)

MET10 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 79066

Other Names

Methyltransferase-like protein 16, 211-, Methyltransferase 10 domain-containing protein, METTL16, METT10D

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.

MET10 Antibody (C-term) Blocking peptide - Protein Information

Name METTL16 {ECO:0000303|PubMed:27872311, ECO:0000312|HGNC:HGNC:28484}

Function

RNA N6-methyltransferase that methylates adenosine residues at the N(6) position of a subset of RNAs and is involved in S-adenosyl-L-methionine homeostasis by regulating expression of MAT2A transcripts (PubMed: [28525753](http://www.uniprot.org/citations/28525753), PubMed: [30197299](http://www.uniprot.org/citations/30197299), PubMed: [30197297](http://www.uniprot.org/citations/30197297), PubMed: [33428944](http://www.uniprot.org/citations/33428944), PubMed: [33930289](http://www.uniprot.org/citations/33930289)). Able to N6-methylate a subset of mRNAs and U6 small nuclear RNAs (U6 snRNAs) (PubMed: [28525753](http://www.uniprot.org/citations/28525753)). In contrast to the METTL3- METTL14 heterodimer, only able to methylate a limited number of RNAs: requires both a 5'UACAGAGAA-3' nonamer sequence and a specific RNA structure (PubMed: [28525753](http://www.uniprot.org/citations/28525753), PubMed: [30197299](http://www.uniprot.org/citations/30197299), PubMed: [30197297](http://www.uniprot.org/citations/30197297)). Plays a key role in S-adenosyl-L-methionine homeostasis by mediating N6- methylation of MAT2A mRNAs, altering splicing of MAT2A transcripts: in presence of

S-adenosyl-L-methionine, binds the 3'-UTR region of MAT2A mRNA and specifically N6-methylates the first hairpin of MAT2A mRNA, preventing recognition of their 3'-splice site by U2AF1/U2AF35, thereby inhibiting splicing and protein production of S-adenosylmethionine synthase (PubMed:28525753, PubMed:33930289). In S-adenosyl-L-methionine-limiting conditions, binds the 3'-UTR region of MAT2A mRNA but stalls due to the lack of a methyl donor, preventing N6-methylation and promoting expression of MAT2A (PubMed:28525753). In addition to mRNAs, also able to mediate N6-methylation of U6 small nuclear RNA (U6 snRNA): specifically N6-methylates adenine in position 43 of U6 snRNAs (PubMed:28525753, PubMed:29051200, PubMed:32266935). Also able to bind various lncRNAs, such as 7SK snRNA (7SK RNA) or 7SL RNA (PubMed:29051200). Specifically binds the 3'-end of the MALAT1 long non-coding RNA (PubMed:27872311).

Cellular Location

Nucleus. Cytoplasm

MET10 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

MET10 Antibody (C-term) Blocking peptide - Images