

MET10 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10007B

Specification

MET10 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q86W50
Other Accession	NP_076991.3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	444-472

MET10 Antibody (C-term) - Additional Information

Gene ID 79066

Other Names

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

Target/Specificity

This MET10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 444-472 amino acids from the C-terminal region of human MET10.

Dilution

WB~~1:2000

IHC-P~~1:100

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

MET10 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MET10 Antibody (C-term) - 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](#), PubMed:[30197299](#), PubMed:[30197297](#), PubMed:[33428944](#), PubMed:[33930289](#)). Able to N6-methylate a subset of mRNAs and U6 small nuclear RNAs (U6 snRNAs) (PubMed:[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](#), PubMed:[30197299](#), PubMed:[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

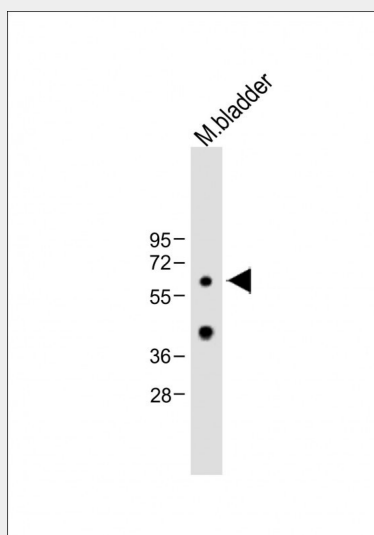
Nucleus. Cytoplasm

MET10 Antibody (C-term) - Protocols

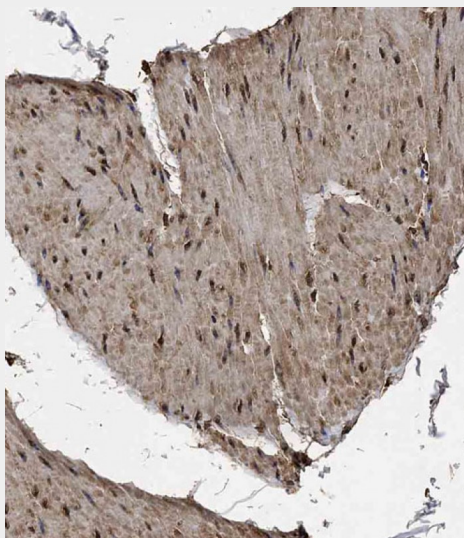
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

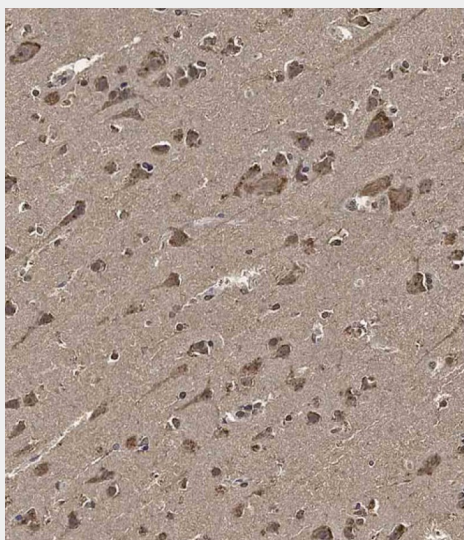
MET10 Antibody (C-term) - Images



Anti-MET10 Antibody (C-term) at 1:2000 dilution + Mouse bladder lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 64 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemical analysis of AP10007B on paraffin-embedded Human bladder tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of AP10007B on paraffin-embedded Human brain tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.