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# METTL7A Rabbit pAb

METTL7A Rabbit pAb
Catalog # AP57276

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | Q9H8H3 |
| **Reactivity** | Human |
| **Predicted** | Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 28319 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human METTL7A |
| **Epitope Specificity** | 161-244/244 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Lipid droplet. Endoplasmic reticulum. Membrane. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | METTL7A is a 244 amino acid protein that is thought to function as a methyltransferase and is encoded by a gene which maps to chromosome 12. Encoding over 1,100 genes, chromosome 12 comprises nearly 4.5% of the human genome and is associated with a number of skeletal deformaties, including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Chromosome 12 is also home to both a homeobox gene cluster which encodes crucial transcription factors for morphogenesis, and a natural killer complex gene cluster encoding C-type lectin proteins which mediate the NK cell response to MHC I interaction. Additionally, Trisomy 12p (three copies of the p arm of chromosome 12) leads to facial developmental defects, seizure disorders and a host of other symptoms varying in severity depending on the extent of mosaicism. |

## Additional Information

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| **Gene ID** | 25840 |
| **Other Names** | Thiol S-methyltransferase TMT1A, 2.1.1.9, Methyltransferase-like protein 7A, N6-adenosine-methyltransferase TMT1A, 2.1.1.348, Protein AAM-B, Thiol methyltransferase 1A {ECO:0000312\|HGNC:HGNC:24550}, TMT1A {ECO:0000303\|PubMed:37137720, ECO:0000312\|HGNC:HGNC:24550} |
| **Dilution** | WB=1:500-2000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When |

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

**Name**

TMT1A {ECO:0000303|PubMed:37137720, ECO:0000312|HGNC:HGNC:24550}

**Function**

Thiol S-methyltransferase that catalyzes the transfer of a methyl group from S-adenosyl-L-methionine to alkyl and phenolic thiol- containing acceptor substrates. Together with TMT1B accounts for most of S-thiol methylation activity in the endoplasmic reticulum of hepatocytes (PubMed:37137720). Able to methylate the N6 position of adenosine residues in long non-coding RNAs (lncRNAs). May facilitate lncRNAs transfer into exosomes at the tumor-stroma interface (PubMed:34980213). Promotes osteogenic and odontogenic differentiation by regulating the expression of genes involved in stem cell differentiation and survival (PubMed:34226523, PubMed:34790668). Targeted from the endoplasmic reticulum to lipid droplets, where it recruits cellular proteins to form functional organelles (PubMed:19773358).

**Cellular Location**

Lipid droplet. Endoplasmic reticulum. Membrane. Microsome Cytoplasm, cytosol. Note=Inserted in the ER membrane and migrates from the inserted site to lipid droplet

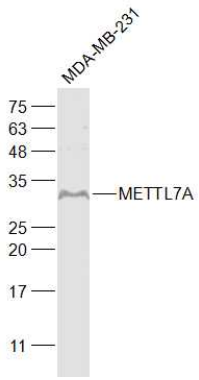
**Tissue Location**

Expressed in the liver.

## Background

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## Images




Sample:
MDA-MB-231(Human) Cell Lysate at 30 ug
Primary: Anti-METTL7A (AP57276) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25 kD
Observed band size: 32 kD

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