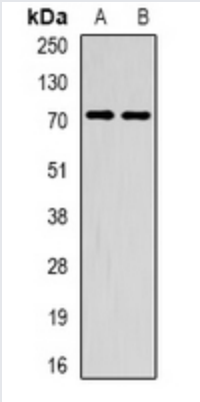
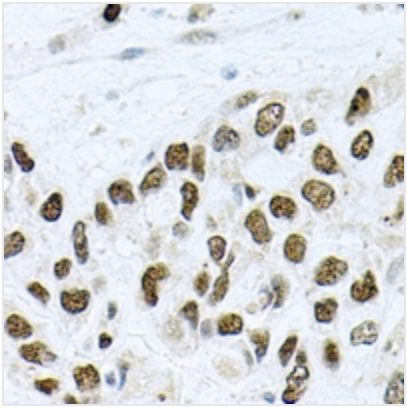
METTL3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	METTL3, Polyclonal Antibody
Full Product Name	Anti-METTL3 Antibody
Product Gene Name	anti-METTL3 antibody
Product Synonym Names	MTA70; N6-adenosine-methyltransferase 70 kDa subunit; MT-A70; Methyltransferase-like protein 3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of METTL3 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	25,479 Da
OMIM	612472
3D Structure	ModBase 3D Structure for Q86U44
Immunogen	Recombinant full length protein of human METTL3
Applications Tested/Suitable for anti-METTL3 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-METTL3 antibody	WB: 1/500 - 1/2000; IHC: 1/50 - 1/200
Related Product Information for anti-METTL3 antibody	MBS8245370 is an antibody targeting METTL3. Reactive in Human, Mouse. Host: Rabbit. Rabbit polyclonal antibody to METTL3
Other Notes	Small volumes of anti-METTL3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-METTL3 antibody
Western blot analysis of METTL3 expression in HepG2 (A), mouse spleen (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-METTL3 antibody
Immunohistochemical analysis of METTL3 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for METTL3. It may not necessarily be applicable to this product.

NCBI GI #	21361827
NCBI GeneID	56339
NCBI Accession #	NP_062826.2
UniProt Primary Accession #	Q86U44
UniProt Secondary Accession #	O14736; Q86V05; Q9HB32
UniProt Related Accession #	Q86U44
GenBank Nucleotide #	NM_019852.4
NCBI Official Full Name	N6-adenosine-methyltransferase 70 kDa subunit
NCBI Official Synonym Full Names	methyltransferase like 3
NCBI Official Symbol	METTL3
NCBI Official Synonym Symbols	M6A; IME4; Spo8; MT-A70
UniProt Protein Name	N6-adenosine-methyltransferase 70 kDa subunit
UniProt Synonym Protein Names	Methyltransferase-like protein 3
Protein Family	N6-adenosine-methyltransferase
UniProt Gene Name	METTL3
UniProt Synonym Gene Names	MTA70; MT-A70
UniProt Entry Name	MTA70_HUMAN
NCBI Protein Information	N6-adenosine-methyltransferase 70 kDa subunit
NCBI Summary for METTL3	This gene encodes the 70 kDa subunit of MT-A which is part of N6-adenosine-methyltransferase. This enzyme is involved in the posttranscriptional methylation of internal adenosine residues in eukaryotic mRNAs, forming N6-methyladenosine. [provided by RefSeq, Jul 2008]

UniProt Comments for METTL3	METTL3: N6-methyltransferase that methylates adenosine residues of some mRNAs. N6-methyladenosine (m6A), which is present at internal sites of some mRNAs, may play a role in the efficiency of mRNA splicing, transport or translation. Belongs to the MT-A70-like family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Methyltransferase; RNA processing; EC 2.1.1.62 Chromosomal Location of Human Ortholog: 14q11.1 Cellular Component: nuclear speck; nucleoplasm; nucleus Molecular Function: mRNA (2'-O-methyladenosine-N6-)-methyltransferase activity; RNA binding; RNA methyltransferase activity Biological Process: adenosine to inosine editing; circadian rhythm; gene expression; mRNA processing; nuclear mRNA splicing, via spliceosome; primary microRNA processing; RNA methylation; stem cell maintenance
Research Articles on METTL3	**1.** genetic inactivation impaired embryonic stem cells differentiation
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