RNMT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RNMT, Polyclonal Antibody
Full Product Name	Rabbit anti-Homo sapiens (Human) RNMT Polyclonal Antibody
Product Gene Name	anti-RNMT antibody
Product Synonym Names	RNMT Antibody; mRNA cap guanine-N7 methyltransferase; EC 2.1.1.56; RG7MT1; mRNA; guanine-N(7)--methyltransferase; mRNA cap methyltransferase; hCMT1; hMet; hcm1p; RNMT KIAA0398
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Homo sapiens (Human)
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	476
OMIM	603514
3D Structure	ModBase 3D Structure for O43148
Immunogen	Recombinant Homo sapiens (Human) RNMT protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RNMT antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-RNMT antibody	MBS7141633 is an antibody targeting RNMT. Also known as Rabbit anti-Homo sapiens (Human) RNMT Polyclonal Antibody. Reactive in Homo sapiens (Human). Host: Rabbit.
Other Notes	Small volumes of anti-RNMT 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.

ADDITIONAL DETAILS

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

NCBI GI #	74735378
NCBI GeneID	8731
NCBI Accession #	O43148.1
UniProt Primary Accession #	O43148

UniProt Secondary Accession #	O94996; Q9UIJ9; B0YJ90; D3DUJ5
UniProt Related Accession #	O43148
NCBI Official Full Name	mRNA cap guanine-N7 methyltransferase
NCBI Official Synonym Full Names	RNA (guanine-7-) methyltransferase
NCBI Official Symbol	RNMT
NCBI Official Synonym Symbols	MET; RG7MT1; hCMT1c
UniProt Protein Name	mRNA cap guanine-N7 methyltransferase
UniProt Synonym Protein Names	RG7MT1; mRNA (guanine-N(7)-)-methyltransferase; mRNA cap methyltransferase; hCMT1; hMet; hcm1p
Protein Family	RNMT-activating mini protein
UniProt Gene Name	RNMT
UniProt Synonym Gene Names	KIAA0398; hCMT1; hMet; hcm1p
UniProt Entry Name	MCES_HUMAN
NCBI Protein Information	mRNA cap guanine-N7 methyltransferase; hMet; hCMT1; hcm1p; mRNA cap methyltransferase; mRNA (guanine-7-)methyltransferase; mRNA (guanine-N(7)-)-methyltransferase
UniProt Comments for RNMT	RNMT: mRNA capping methyltransferase that methylates the N7 position of the added guanosine to the 5' cap structure of mRNAs. Binds RNA containing 5'-terminal GpppC. Interacts with importin alpha, leading to stimulate both RNA-binding and methyltransferase activity. Interaction with importin alpha and beta is required for its nuclear localization, importin beta dissociating in response to RanGTP, allowing RNMT- importin alpha to bind RNA substrates.Interacts with elongating form of polymerase II and RNGTT. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Methyltransferase; RNA processing; EC 2.1.1.56 Chromosomal Location of Human Ortholog: 18p11.21 Cellular Component: nucleoplasm; mRNA cap complex; nucleolus; nucleus; receptor complex Molecular Function: protein binding; RNA binding; mRNA (guanine-N7-)-methyltransferase activity Biological Process: transcription from RNA polymerase II promoter; mRNA capping; viral reproduction; gene expression
Research Articles on RNMT	**1.** Data suggest the C-terminal nuclear localization domain (QYP) is critical for RAM (RNMT-activating mini protein) to enter the cell nucleus where RAM activates RNMT resulting in mRNA cap methylation. TNPO1/TNPO2 mediate RAM nuclear entry.
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