

Rabbit anti-Human RNMT Polyclonal Antibody | anti-RNMT antibody

Anti-RNMT Antibody Picoband

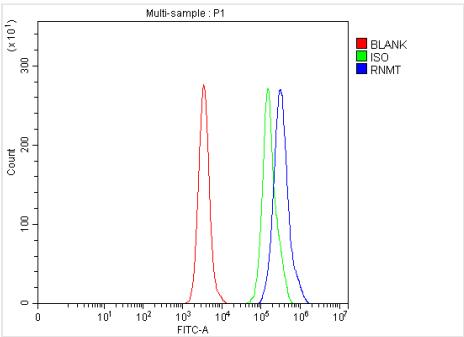
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127473	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

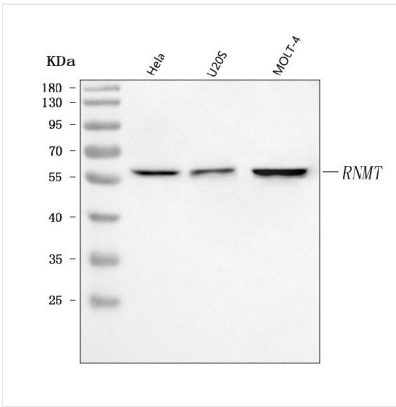
RNMT; Polyclonal Antibody; Anti-RNMT Antibody Picoband; Chromaffin granule amine transporter; SRY-box 15; Protein SOX-15; Protein SOX-12; Protein SOX-20; SOX15; SOX12; SOX20; SOX26; SOX27; anti-RNMT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed in fetal and adult tissues examined, highest level found in fetal spinal cord and adult brain and testis.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RNMT antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RNMT recombinant protein (Position: R197-E380).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Binds to the 5'-ACAAT-3' sequence.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of Daudi cells using anti-RNMT antibody (AAA127473). Overlay histogram showing Daudi cells stained with AAA127473 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RNMT Antibody (AAA127473, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)
Figure 1. Western blot analysis of RNMT using anti-RNMT antibody (AAA127473). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human U2OS whole cell lysates, Lane 3: human MOLT-4 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RNMT antigen affinity purified polyclonal antibody (#AAA127473) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RNMT at approximately 56 kDa. The expected band size for RNMT is at 55 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RNMT antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-RNMT antibody	Primary Antibodies; Golgi Proteins; Protein Trafficking; Signal Transduction; Vesicle Transport
References	1. Gonatopoulos-Pournatzis, T., Dunn, S., Bounds, R., Cowling, V. H. RAM/Fam103a1 is required for mRNA cap methylation. Molec. Cell 44: 585-596, 2011. 2. Ishikawa, K., Nagase, T., Nakajima, D., Seki, N., Ohira, M., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. VIII. 78 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 4: 307-313, 1997. 3. Pillutla, R. C., Shimamoto, A., Furuichi, Y., Shatkin, A. J. Human mRNA capping enzyme (RNGTT) and cap methyltransferase (RNMT) map to 6q16 and 18p11.22-p11.23, respectively. Genomics 54: 351-353, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74735378
NCBI GeneID	8731
UniProt Accession #	O43148; O94996; Q9UIJ9; B0YJ90; D3DUJ5
Molecular Weight	476
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

NCBI Protein Information	mRNA cap guanine-N7 methyltransferase; hMet; hCMT1; hcm1p; mRNA cap methyltransferase; mRNA (guanine-7-)methyltransferase; mRNA (guanine-N(7)-)-methyltransferase
UniProt Protein Name	mRNA cap guanine-N7 methyltransferase
UniProt Gene Name	RNMT
UniProt Synonym Gene Names	KIAA0398; hCMT1; hMet; hcm1p
UniProt Entry Name	MCES_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rnmt-antibody-flow-cytometry-western-blot-elisa/127473>