

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

Anti-RNMT Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256334	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RNMT; Polyclonal Antibody; Anti-RNMT Antibody; Rabbit Polyclonal; RNMT Antibody; Rabbit PAb; Antigen Affinity Purified; RNA (guanine-7-) methyltransferase; Anti-cm1p Antibody; Anti-CMT1 Antibody; Anti-CMT1c Antibody; Anti-hCMT1 Antibody; Anti-hMet Antibody; Anti-MET Antibody; Anti-RG7MT1 Antibody; anti-RNMT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human RNMT
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-RNMT antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human RNMT fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human RNMT fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

RNMT was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate, 4 uL anti-RNMT rabbit polyclonal antibody and 60 ug of Immnomagnetic beads Protein A/G. Primary antibody: Anti-RNMT rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 55 kDa. Observed band size: 60 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of RNMT in U2OS cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human RNMT polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



WB (Western Blot)

Anti-RNMT rabbit polyclonal antibody at 1:500 dilutionLane A: Hela Whole Cell LysateLane B: HEK-293 Whole Cell LysateLane C: 293T Whole Cell LysateLane D: Jurkat Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:55 kDaObserved band size:57 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-RNMT antibody	In the vertebrates, the cap methyltransferase, RNA guanine-7 methyltransferase (RNMT), has an activating subunit, RNMT-Activating Miniprotein (RAM). RNMT has a methyltransferase domain and an N-terminal domain; it is conserved in mammals, but not required for cap methyltransferase activity. RNA guanine-7 methyltransferase (RNMT)-RNA-activating miniprotein (RAM), the mRNA cap methyltransferase complex, completes the basic functional mRNA cap structure, cap 0, by methylating the cap guanosine. The RNMT in complex with RNMT-activating miniprotein (RAM) catalyzes the formation of an N7-methylated guanosine cap structure on the 5' end of nascent RNA polymerase II transcripts. The mRNA cap protects the primary transcript from exonucleases and recruits cap-binding complexes that mediate RNA processing, export, and translation.
References	Varshney D, et al. (2016) Molecular basis of rna guanine-7 methyltransferase (rnmt) activation by ram. Nucleic Acids Res 44 (21): 10423-10436.Dunn S, et al. (2017) C-myc co-ordinates mrna cap methylation and ribosomal rna production. Biochem J 474 (3): 377-384.Bueren-Calabuig JA, et al. (2019) Mechanism of allosteric activation of human mrna cap methyltransferase (rnmt) by ram: Insights from accelerated molecular dynamics simulations. Nucleic Acids Res 47 (16): 8675-8692.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rnmt-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/256334>