



Rabbit anti RNMT polyclonal antibody (CABT-L7845)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Human RNMT
Immunogen	E. coli-derived Human RNMT fragment
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Affinity purified
Conjugate	Unconjugated
Applications	WB, ICC/IF, IP Recommended Dilution WB 1:500-1:2000 ICC-IF 1:100-1:500 IP IP:0.5-2µL/mg of lysate
Preparation	Produced in rabbits immunized with E. coli-derived Human RNMT fragment, and purified by antigen affinity chromatography.
Format	Liquid
Concentration	Lot specific
Buffer	PBS
Preservative	0.03% Proclin300

Storage	Store at -20°C.
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Ship	Wet ice
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BACKGROUND

Introduction

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.

Keywords	RNA (guanine-7-) methyltransferase
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