

For Research Use Only

RNMT Polyclonal antibody

Catalog Number: 13743-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:

13743-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 273 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4682

GenBank Accession Number:

BC036798

GeneID (NCBI):

8731

UNIPROT ID:

O43148

Full Name:

RNA (guanine-7-) methyltransferase

Calculated MW:

476 aa, 55 kDa

Observed MW:

55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, ColP

Species Specificity:

human, mouse

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human kidney tissue, HeLa cells, human liver tissue

IP : L02 cells,

IHC : human colon cancer tissue,

IF/ICC : HeLa cells,

Background Information

RNMT, also named as mRNA cap guanine-N7 methyltransferase or KIAA0398, is a 476 amino acid protein, which contains one mRNA cap 0 methyltransferase domain and belongs to the class I-like SAM-binding methyltransferase superfamily. mRNA cap 0 methyltransferase family. RNMT localizes in the nucleus and is widely expressed in various tissues. RNMT as a mRNA-capping methyltransferase that methylates the N7 position of the added guanosine to the 5'-cap structure of mRNAs and binds RNA containing 5'-terminal GpppC.

Notable Publications

Author	Pubmed ID	Journal	Application
Michael J Osborne	35026230	J Mol Biol	WB, ColP
Shuqiang Huang	39018675	Immunobiology	WB
Lenka Stixová	38370261	Heliyon	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

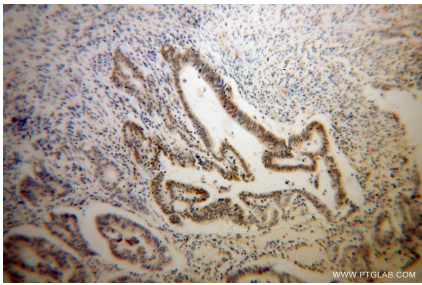
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

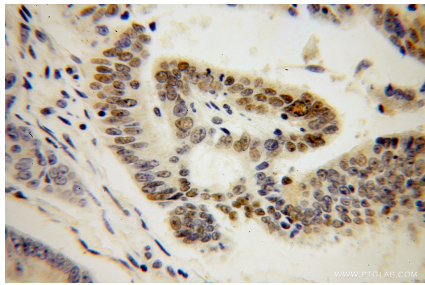
Selected Validation Data



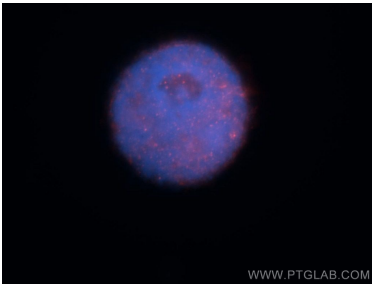
human kidney tissue were subjected to SDS PAGE followed by western blot with 13743-1-AP (RNMT antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



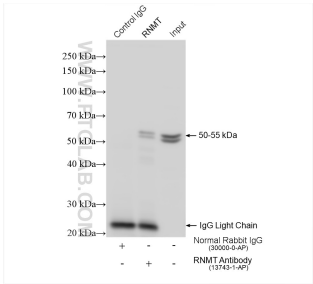
Immunohistochemical analysis of paraffin-embedded human colon cancer using 13743-1-AP (RNMT antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 13743-1-AP (RNMT antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells, using RNMT antibody 13743-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-RNMT (IP:13743-1-AP, 4ug; Detection:13743-1-AP 1:3000) with L02 cells lysate 1040 ug.