

For Research Use Only

# RNMT Polyclonal antibody

Catalog Number: 13743-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

13743-1-AP

### Size:

400 µg/ml

### 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 µg 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

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

T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

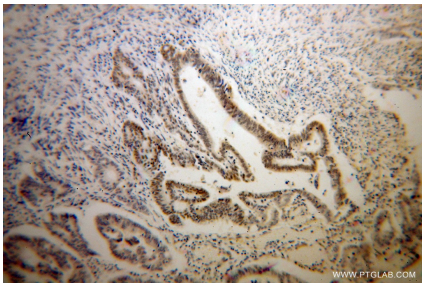
W: [ptgcn.com](http://ptgcn.com)

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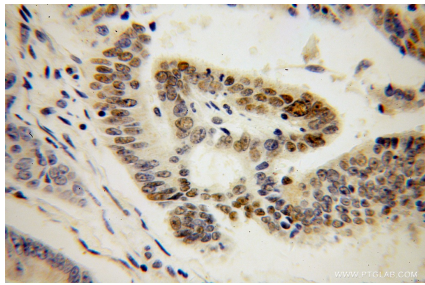
Selected Validation Data



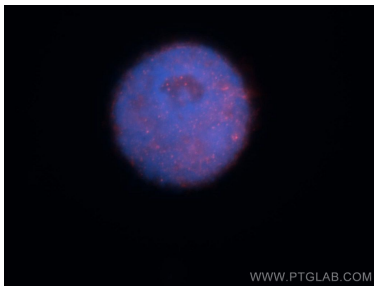
human kidney tissue were subjected to SDS PAGE followed by western blot with 13743-1-AP (RNMT antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



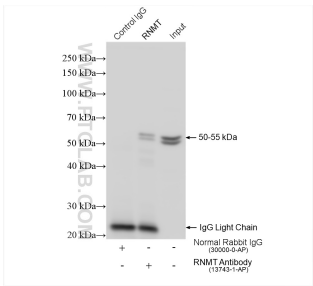
Immunohistochemical analysis of paraffin-embedded human colon cancer using 13743-1-AP (RNMT antibody) at dilution of 1:50 (under 10x lens).



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.