

For Research Use Only

# TRMT6 Polyclonal antibody

Catalog Number: 16727-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

16727-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10176

### GenBank Accession Number:

BC001262

### GeneID (NCBI):

51605

### UNIPROT ID:

Q9UJA5

### Full Name:

tRNA methyltransferase 6 homolog (S. cerevisiae)

### Calculated MW:

56 kDa

### Observed MW:

55-60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:12000

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

IHC: 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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 : HepG2 cells, HuH-7 cells, SMMC-7721 cells

IP : HeLa cells,

IHC : human colon cancer tissue,

## Background Information

Transfer RNA (tRNA) modifications help regulate the efficiency of mRNA translation by maintaining the correct reading frames within mRNA. TRMT6 (tRNA methyltransferase 6), also known as GCD10 or TRM6, is a 497 amino acid protein that localizes to the nucleus and exists as a heterodimer with TRM61. Expressed in liver, brain, ovary and testis, TRMT6 functions as a substrate-binding subunit of tRNA and is thought to catalyze the formation of N(1)-methyladenine at position 58 in initiator methionyl-tRNA. TRMT6 exists as three alternatively spliced isoforms that, in response to DNA damage, may be phosphorylated by ATM or ATR. This antibody is specific to 56kd TRMT6 protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yongbo Liu	36138184	Nat Immunol	WB
Yanying Wang	34728628	Nat Commun	WB, IHC
Wenjun Kuang	35277482	Cell Discov	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

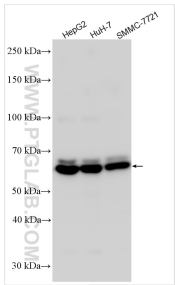
For technical support and original validation data for this product please contact:

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

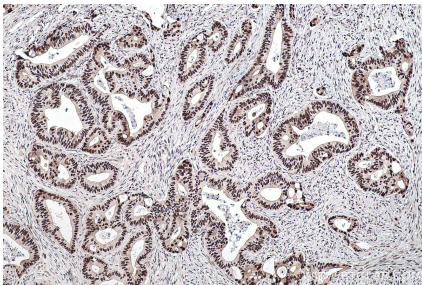
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

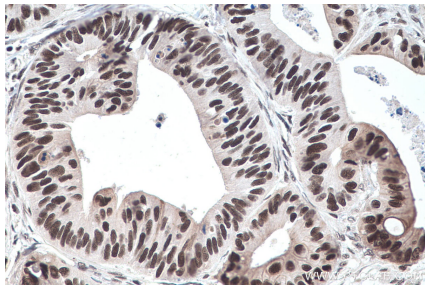
Selected Validation Data



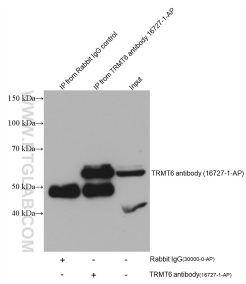
Various lysates were subjected to SDS PAGE followed by western blot with 16727-1-AP (TRMT6 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



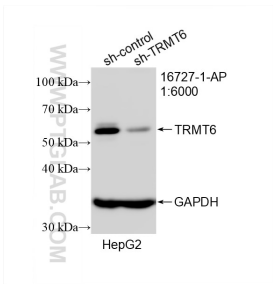
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16727-1-AP (TRMT6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16727-1-AP (TRMT6 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-TRMT6 (IP:16727-1-AP, 4ug; Detection:16727-1-AP 1:700) with HeLa cells lysate 2000 ug.



WB result of TRMT6 antibody (16727-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TRMT6 transfected HepG2 cells.