

For Research Use Only

TRMT6 Polyclonal antibody

Catalog Number: 16727-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

16727-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 407 ug/ml by Bradford method using BSA as the standard;

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

Positive Controls:

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

IP : HeLa cells,

IHC : human colon cancer tissue,

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

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

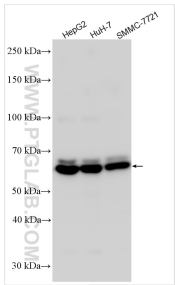
For technical support and original validation data for this product please contact:

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

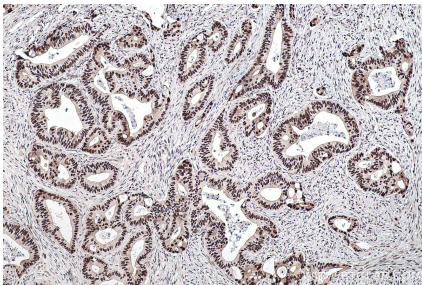
E: proteintech@ptglab.com
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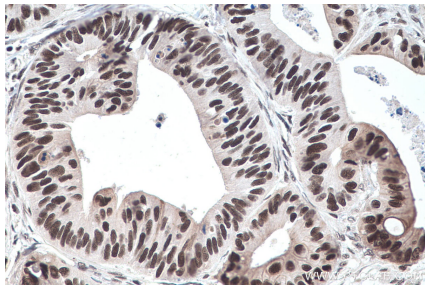
Selected Validation Data



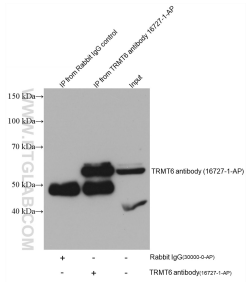
Various lysates were subjected to SDS PAGE followed by western blot with 16727-1-AP (TRMT6 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



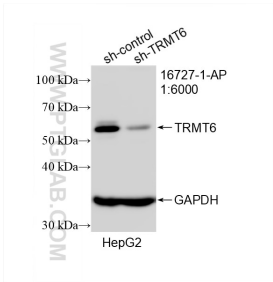
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16727-1-AP (TRMT6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.