

For Research Use Only

TRMT6 Recombinant antibody

Catalog Number: 83843-6-RR

Featured Product



Basic Information

Catalog Number:

83843-6-RR

Concentration:

1000 ug/ml

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:

Protein A purification

CloneNo.:

240911D3

Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:600-1:2400

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

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 : U-251 cells, HepG2 cells, U-87 MG cells, SMMC-7721 cells, HuH-7 cells, mouse brain tissue

IHC : human ovarian cancer,

IF/ICC : A431 cells,

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.

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

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

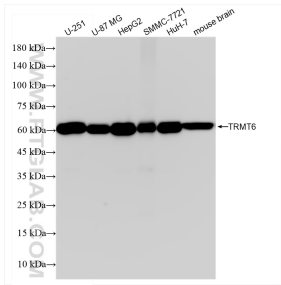
T: 4006900926

E: Proteintech-CN@ptglab.com

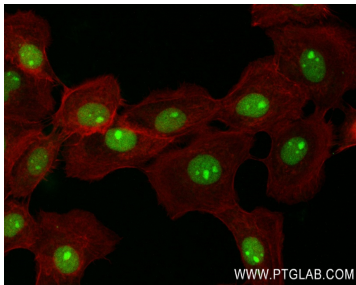
W: ptgcn.com

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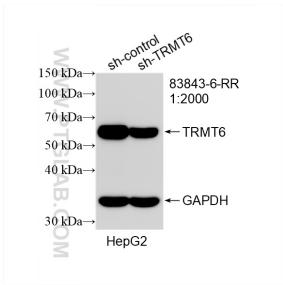
Selected Validation Data



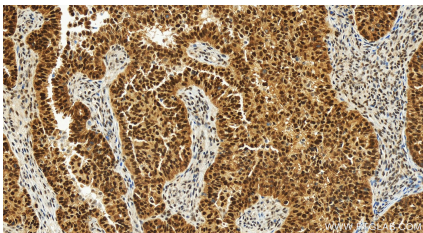
Various lysates were subjected to SDS PAGE followed by western blot with 83843-6-RR (TRMT6 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



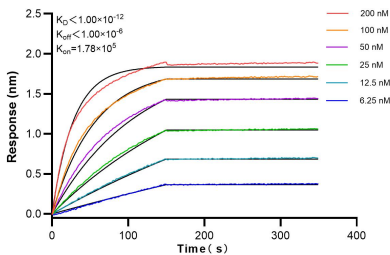
Immunofluorescent analysis of (4% PFA) fixed A431 cells using TRMT6 antibody (83843-6-RR, Clone: 240911D3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



WB result of TRMT6 antibody (83843-6-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TRMT6 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83843-6-RR (TRMT6 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83843-6-RR against Human TRMT6 were performed. The affinity constant is below 1 pM.