For Research Use Only

TRMT1 Recombinant antibody, PBS Only

Catalog Number:85897-5-PBS

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Basic Information

Catalog Number:
85897-5-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6837

GenBank Accession Number:
BC002492

GeneID (NCBI):
55621

UNIPROT ID:
Q9NXH9

Full Name:
TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)

Calculated MW:
81 kDa

Observed MW:
75 kDa

Purification Method:
Protein A purification

CloneNo.:
250178D5

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, rat

Background Information

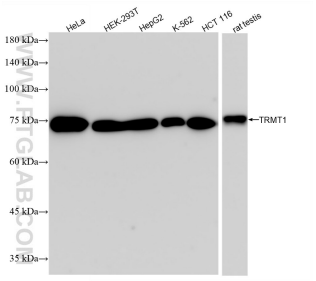
TRMT1 is an RNA methyltransferase responsible for the formation of N2,N2-dimethylguanosine (m2,2G) at position 26 in both cytosolic and mitochondrial tRNAs.TRMT1-catalyzed tRNA modifications are important for maintenance of global protein translation levels including proteins involved in cellular growth, development, and stress response. Human neural stem cells with TRMT1 knockdowns were found to have hypersensitivity to redox stress, implicating TRMT1 and the m2,2G26 modification in the regulation of redox homeostasis.

Storage

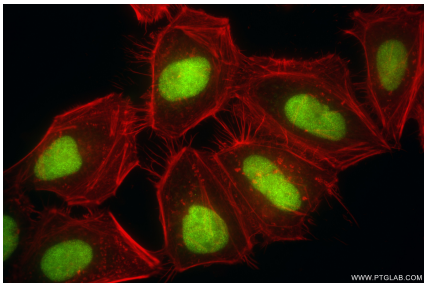
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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

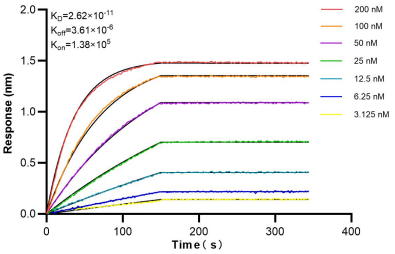
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85897-5-RR (TRMT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85897-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TRMT1 antibody (85897-5-RR, Clone: 250178D5) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 85897-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85897-5-RR against Human TRMT1 were performed. The affinity constant is 26.2 pM.