

For Research Use Only

TRMT1 Recombinant antibody

Catalog Number: 85897-5-RR



Basic Information

Catalog Number: 85897-5-RR	GenBank Accession Number: BC002492	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 55621	CloneNo.: 250178D5
Source: Rabbit	UNIPROT ID: Q9NXH9	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:400-1:1600
Isotype: IgG	Full Name: TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	
Immunogen Catalog Number: AG6837	Calculated MW: 81 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, rat	WB : HeLa cells, HEK-293T cells, HepG2 cells, K-562 cells, HCT 116 cells, rat testis tissue
	IF/ICC : HeLa cells,

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

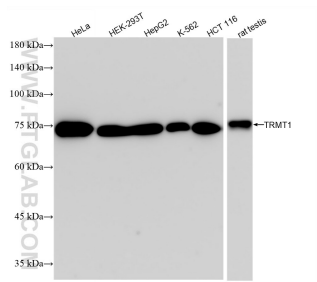
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

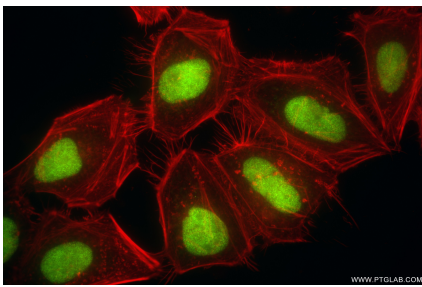
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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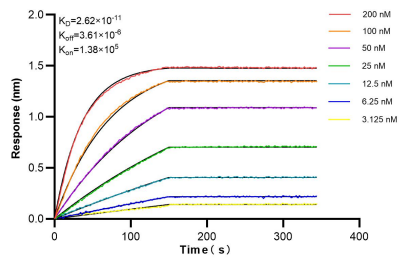
Selected Validation Data



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.



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).



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