

For Research Use Only

# TRMT1 Recombinant antibody, PBS Only

Catalog Number: 85897-5-PBS



## Basic Information

<b>Catalog Number:</b> 85897-5-PBS	<b>GenBank Accession Number:</b> BC002492	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 55621	<b>CloneNo.:</b> 250178D5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NXH9	
<b>Isotype:</b> IgG	<b>Full Name:</b> TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG6837	<b>Calculated MW:</b> 81 kDa	
	<b>Observed MW:</b> 75 kDa	

## 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.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

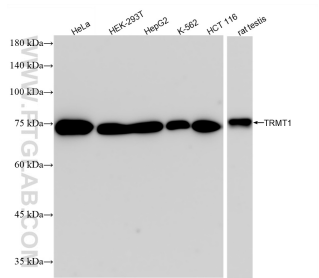
T: 4006900926

E: Proteintech-CN@ptglab.com

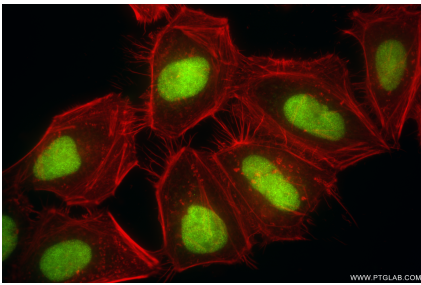
W: ptgcn.com

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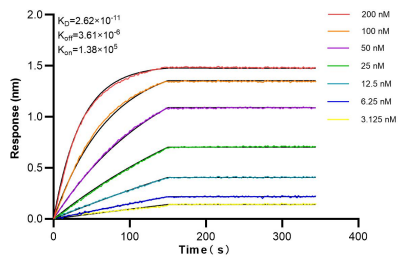
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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.