

For Research Use Only

TRMT1 Polyclonal antibody

Catalog Number:14970-1-AP



Basic Information

Catalog Number: 14970-1-AP	GenBank Accession Number: BC002492	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 55621	Recommended Dilutions: WB 1:600-1:3000
Source: Rabbit	UNIPROT ID: Q9NXH9	IHC 1:50-1:500
Isotype: IgG	Full Name: TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	IF/ICC 1:20-1:200
Immunogen Catalog Number: AG6837	Calculated MW: 81 kDa	
	Observed MW: 72 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human colon cancer 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

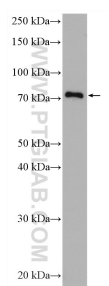
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

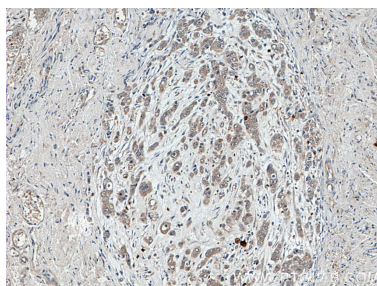
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

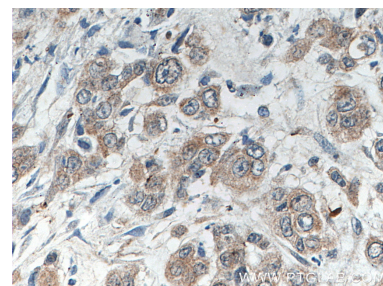
Selected Validation Data



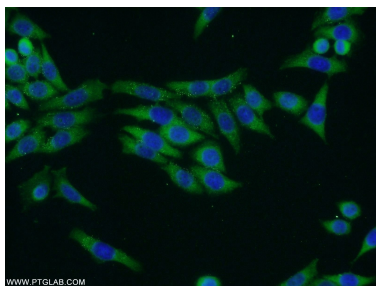
HeLa cells were subjected to SDS PAGE followed by western blot with 14970-1-AP (TRMT1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14970-1-AP (TRMT1 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14970-1-AP (TRMT1 antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 14970-1-AP (TRMT1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).