

For Research Use Only

NNMT Recombinant monoclonal antibody, PBS Only

Catalog Number: 84876-9-PBS



Basic Information

Catalog Number: 84876-9-PBS	GenBank Accession Number: BC000234	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4837	CloneNo.: 242394A8
Source: Rabbit	UNIPROT ID: P40261	
Isotype: IgG	Full Name: nicotinamide N-methyltransferase	
Immunogen Catalog Number: AG7197	Calculated MW: 30 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:
human

Background Information

NNMT can catalyze the N-methylation of nicotinamide using the universal methyl donor S-adenosyl-L-methionine to form N1-methylnicotinamide and S-adenosyl-L-homocysteine, a predominant nicotinamide/vitamin B3 clearance pathway (PMID: 21823666; 23455543; 8182091). It plays a central role in regulating cellular methylation potential, by consuming S-adenosyl-L-methionine and limiting its availability for other methyltransferases. Actively mediates genome-wide epigenetic and transcriptional changes through hypomethylation of repressive chromatin marks, such as H3K27me3 (PMID: 23455543; PMID: 26571212; PMID: 31043742).

Storage

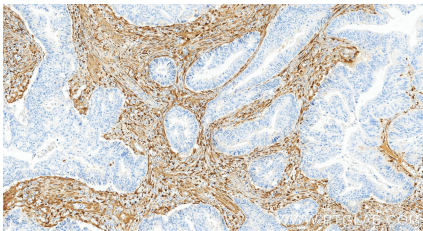
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

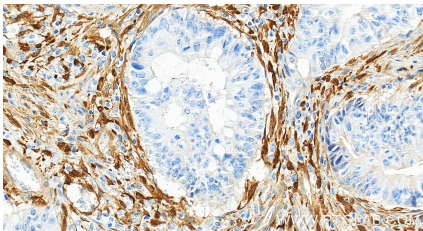
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

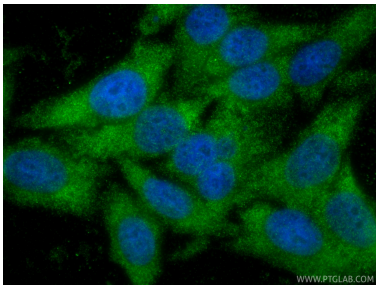
Selected Validation Data



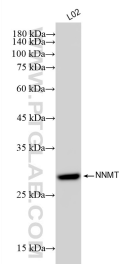
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84876-9-RR (NNMT antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84876-9-PBS in a different storage buffer formulation.



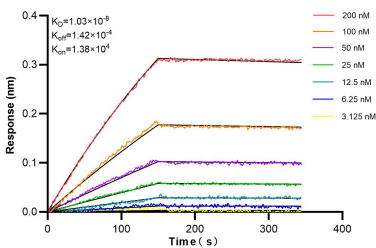
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84876-9-RR (NNMT antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84876-9-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NNMT antibody (84876-9-RR, Clone: 242394A8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84876-9-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 84876-9-RR (NNMT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84876-9-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84876-9-RR against Human NNMT were performed. The affinity constant is 10.3 nM.