

For Research Use Only

# NNMT Recombinant monoclonal antibody

Catalog Number: 84876-9-RR



## Basic Information

|                                                                |                                                       |                                                                                                   |
|----------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>84876-9-RR                           | <b>GenBank Accession Number:</b><br>BC000234          | <b>Purification Method:</b><br>Protein A purification                                             |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>4837                         | <b>CloneNo.:</b><br>242394A8                                                                      |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P40261                          | <b>Recommended Dilutions:</b><br>WB: 1:2000-1:10000<br>IHC: 1:2500-1:10000<br>IF/ICC: 1:200-1:800 |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>nicotinamide N-methyltransferase |                                                                                                   |
| <b>Immunogen Catalog Number:</b><br>AG7197                     | <b>Calculated MW:</b><br>30 kDa                       |                                                                                                   |
|                                                                | <b>Observed MW:</b><br>30 kDa                         |                                                                                                   |

## Applications

|                                                                                                                                                             |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Tested Applications:</b><br>WB, IHC, IF/ICC, ELISA                                                                                                       | <b>Positive Controls:</b>               |
| <b>Species Specificity:</b><br>human                                                                                                                        | <b>WB :</b> L02 cells,                  |
| <b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> | <b>IHC :</b> human colon cancer tissue, |
|                                                                                                                                                             | <b>IF/ICC :</b> HepG2 cells,            |

## 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

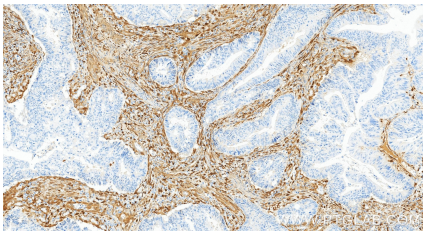
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

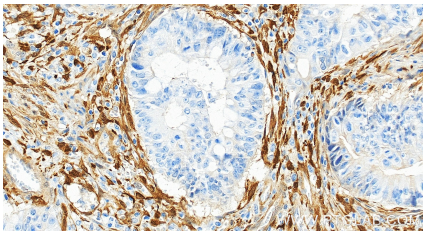
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

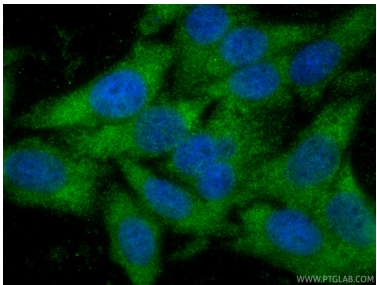
Selected Validation Data



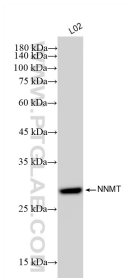
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84876-9-RR (NNMT antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



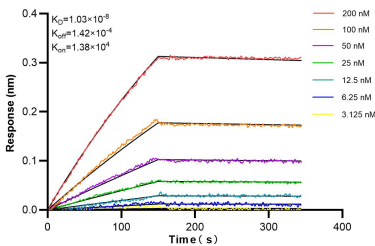
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84876-9-RR (NNMT antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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.



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