

For Research Use Only

NNMT Recombinant monoclonal antibody

Catalog Number: 84876-9-RR



Basic Information

Catalog Number: 84876-9-RR	GenBank Accession Number: BC000234	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4837	CloneNo.: 242394A8
Isotype: IgG	UNIPROT ID: P40261	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:2500-1:10000 IF/ICC: 1:200-1:800
Immunogen Catalog Number: AG7197	Full Name: nicotinamide N-methyltransferase	
	Calculated MW: 30 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : L02 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 : 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

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

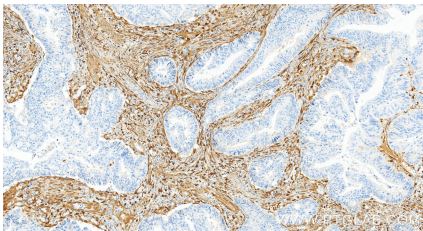
T: 4006900926

E: Proteintech-CN@ptglab.com

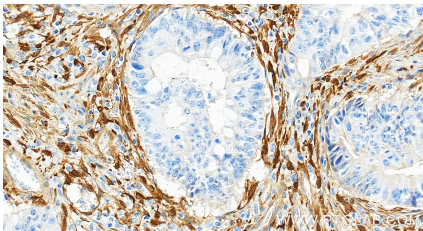
W: ptgcn.com

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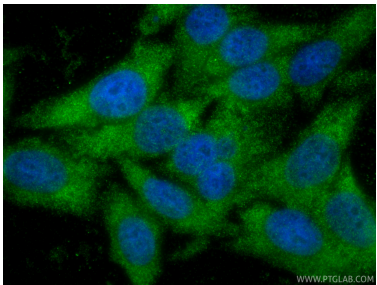
Selected Validation Data



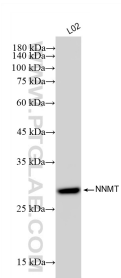
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84876-9-RR (NNMT antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



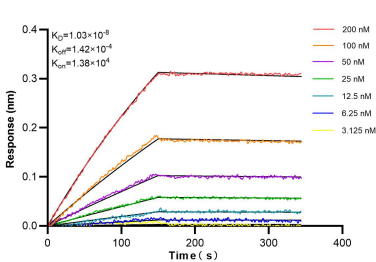
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Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NNMT antibody (84876-9-RR, Clone: 242394A8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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.