

For Research Use Only

# NAPRT1 Monoclonal ANTIBODY



Catalog Number: 66159-1-Ig

Featured Product

2 Publications

## Basic Information

<b>Catalog Number:</b> 66159-1-Ig	<b>GenBank Accession Number:</b> BC032466	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150UL, Concentration: 1467 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 93100	<b>CloneNo.:</b> 5D8H10
<b>Source:</b> Mouse	<b>Full Name:</b> nicotinate phosphoribosyltransferase domain containing 1	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:20-1:200 IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 514 aa, 55 kDa	
<b>Immunogen Catalog Number:</b> AG4265	<b>Observed MW:</b> 51 kDa	

## Applications

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

## Background Information

Nicotinic acid (NA) is a coenzyme in cellular redox reactions, and is an essential component of metabolic pathways in all living cells. NAPRT1 (Nicotinate phosphoribosyltransferase) is essential for increasing cellular NAD levels and, thus, to prevent oxidative stress of cells. NAPRT1 converts Nicotinic acid (NA; niacin) to NA mononucleotide (NaMN), which is then converted to NA adenine dinucleotide (NaAD), and finally to nicotinamide adenine dinucleotide (NAD).

## Notable Publications

Author	Pubmed ID	Journal	Application
Antonella Managò	31511522	Nat Commun	WB
Nathan R Fons	31439867	Nat Commun	WB

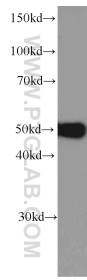
## Storage

**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

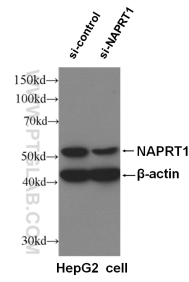
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

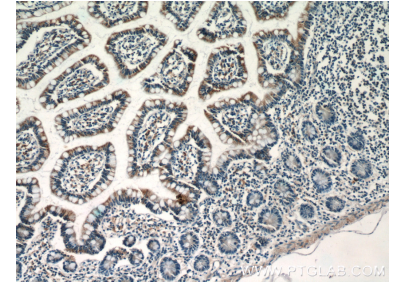
## Selected Validation Data



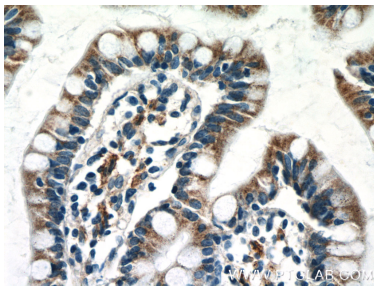
HeLa cells were subjected to SDS PAGE followed by western blot with 66159-1-Ig (NAPRT1 Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



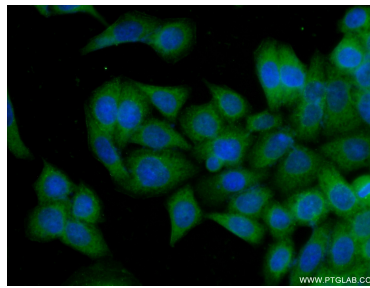
WB result of NAPRT1 antibody (66159-1-Ig, 1:6000) with si-Control and si-NAPRT1 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 66159-1-Ig (NAPRT1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 66159-1-Ig (NAPRT1 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20 Ethanol) fixed HeLa cells using 66159-1-Ig(NAPRT1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).