

For Research Use Only

# NNT Monoclonal antibody, PBS Only

Catalog Number: 68194-1-PBS



## Basic Information

Catalog Number:

68194-1-PBS

Size:

1mg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG4259

GenBank Accession Number:

BC032370

GeneID (NCBI):

23530

UNIPROT ID:

Q13423

Full Name:

nicotinamide nucleotide  
transhydrogenase

Calculated MW:

1085 aa, 114 kDa

Observed MW:

114 kDa

Purification Method:

Protein A purification

CloneNo.:

1F5H6

## Applications

Tested Applications:

WB, IP, IF, IHC, Indirect ELISA

Species Specificity:

Human, Mouse, Rat, Rabbit, Pig

## Background Information

NNT(nicotinamide nucleotide transhydrogenase) is a transmembrane protein and functions as a proton pumping transhydrogenase. The protein is present in both prokaryotes and eukaryotes and is located in the inner membrane of mitochondria. In prokaryotic cells, the enzyme is composed of  $\alpha$  and  $\beta$  subunits of 54 and 48 kDa, respectively. In eukaryotic cells, the enzyme is usually composed of a single peptide of 114 kDa. Although NNT catalyzes the interconversion of NADH and NADPH, the forward reaction using the reducing power of NADH to regenerate NADPH would be favored under conditions of oxidative stress(PMID:16497723). It can exist as a homodimer(PMID:21882037).

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

The product is shipped with ice packs. Upon receipt, store it immediately at  $-80^{\circ}\text{C}$

Storage Buffer:

PBS Only

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

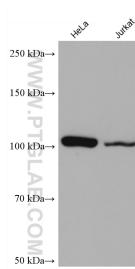
T: 4006900926

E: Proteintech-CN@ptglab.com

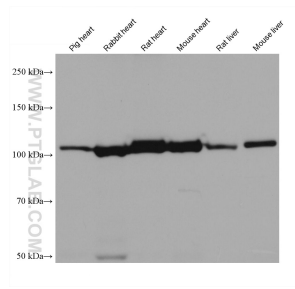
W: ptgcn.com

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

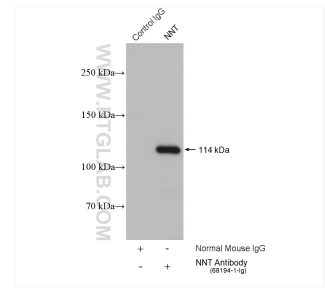
## Selected Validation Data



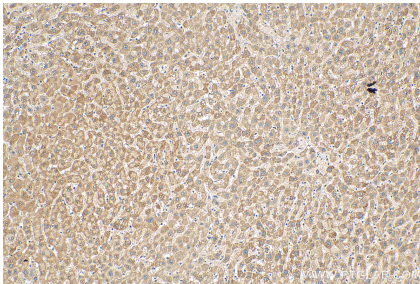
Various lysates were subjected to SDS PAGE followed by western blot with 68194-1-Ig (NNT antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68194-1-PBS in a different storage buffer formulation.



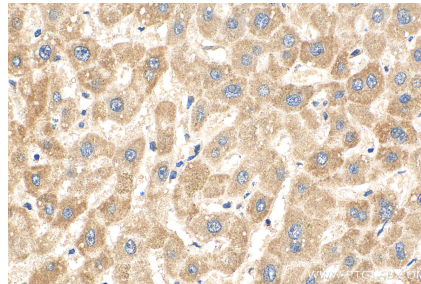
Various lysates (mouse heart tissue and mouse liver tissue were dissected from BALB/c mice) were subjected to SDS PAGE followed by western blot with 68194-1-Ig (NNT antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68194-1-PBS in a different storage buffer formulation.



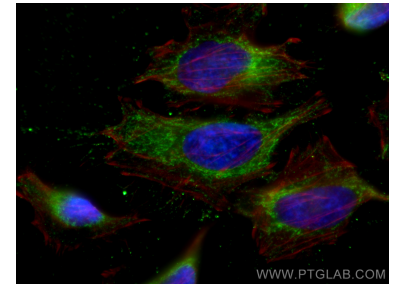
IP result of anti-NNT (IP:68194-1-Ig, 4ug; Detection:68194-1-Ig 1:5000) with HepG2 cells lysate 960 ug. This data was developed using the same antibody clone with 68194-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 68194-1-Ig (NNT antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68194-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 68194-1-Ig (NNT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68194-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using NNT antibody (68194-1-Ig, Clone: 1F5H6) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 68194-1-PBS in a different storage buffer formulation.