

For Research Use Only

NNT Polyclonal antibody, PBS Only

Catalog Number: 13442-2-PBS

Featured Product



Basic Information

Catalog Number:

13442-2-PBS

Source:

Rabbit

Isotype:

IgG

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:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Species Specificity:

human, mouse, rat

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 α and β subunits of 54 and 48 kDa, respectively. In eukaryotic cells, the enzyme is usually composed of a single peptide of 110 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°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

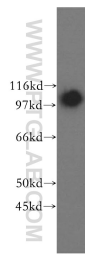
T: 4006900926

E: Proteintech-CN@ptglab.com

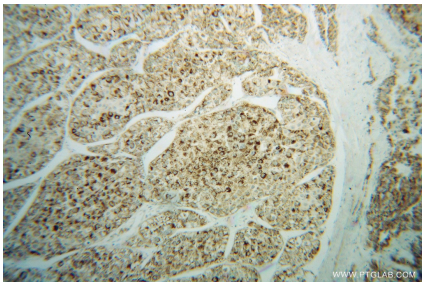
W: ptgcn.com

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

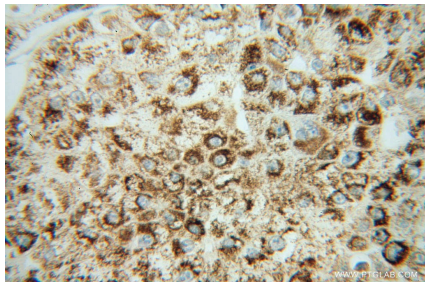
Selected Validation Data



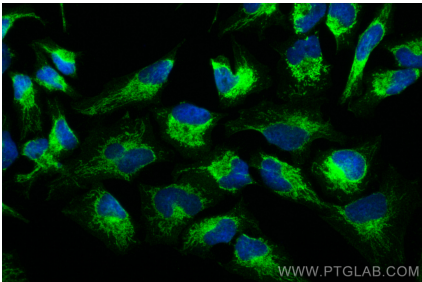
human adrenal gland tissue were subjected to SDS PAGE followed by western blot with 13442-2-AP (NNT antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13442-2-PBS in a different storage buffer formulation.



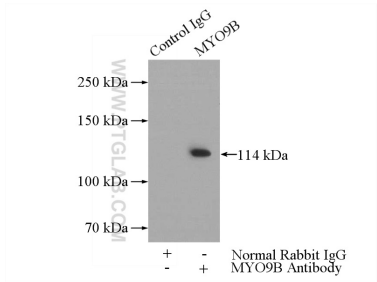
Immunohistochemical analysis of paraffin-embedded human liver cancer using 13442-2-AP (NNT antibody) at dilution of 1:50 (under 10x lens). This data was developed using the same antibody clone with 13442-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer using 13442-2-AP (NNT antibody) at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 13442-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NNT antibody (13442-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 13442-2-PBS in a different storage buffer formulation.



IP result of anti-NNT (IP:13442-2-AP, 4ug; Detection:13442-2-AP 1:300) with HepG2 cells lysate 2800ug. This data was developed using the same antibody clone with 13442-2-PBS in a different storage buffer formulation.