USA: proteintech@ptglab.com

Europe: europe@ptglab.com

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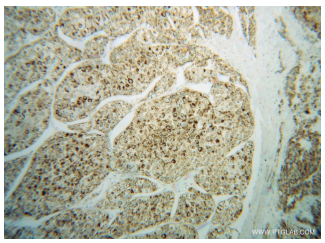
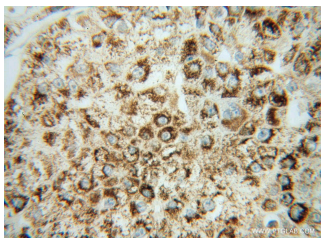
NNT Polyclonal Antibody

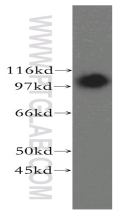
Catalog number: 13442-2-AP
Size: 23 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
NNT; NNT



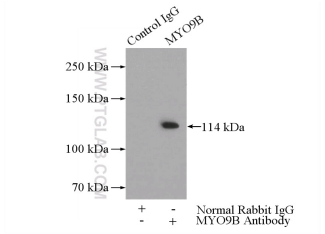
Immunohistochemical of paraffin-embedded human liver cancer using 13442-2-AP(NNT antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human liver cancer using 13442-2-AP(NNT antibody) at dilution of 1:50 (under 40x lens)



human adrenal gland tissue were subjected to SDS PAGE followed by western blot with 13442-2-AP(NNT antibody) at dilution of 1:300



IP Result of anti-NNT (IP:13442-2-AP, 4ug; Detection:13442-2-AP 1:300) with HepG2 cells lysate

Background

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 βsubunits 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 exsit as a homodimer(PMID:21882037).

Applications

Tested applications:	**ELISA, WB, IHC, IP**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Caculated NNT MW:	**1085aa,114 kDa**
Observed NNT MW:	**114 kDa**
Positive WB detected in	**Human adrenal gland tissue, human heart tissue, human liver tissue**
Positive IP detected in	**HepG2 cells**
Positive IHC detected in	**Human liver cancer tissue**
Recommended dilution:	**WB: 1:200-1:2000** **IP: 1:200-1:1000** **IHC: 1:20-1:200**

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag4259**
GenBank accession number:	**BC032370**
Gene ID (NCBI):	**23530**
Full name:	**Nicotinamide nucleotide transhydrogenase**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**

2800ug.