

For Research Use Only

# NMNAT1 Polyclonal antibody

Catalog Number: 11399-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

11399-1-AP

**Size:**

150ul, Concentration: 500 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1944

**GenBank Accession Number:**

BC014943

**GeneID (NCBI):**

64802

**UNIPROT ID:**

Q9HAN9

**Full Name:**

nicotinamide nucleotide adenylyltransferase 1

**Calculated MW:**

33 kDa

**Observed MW:**

28-32 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human

**Cited Species:**

human, mouse, rat

**Positive Controls:**

WB: human testis tissue,

IHC: human pancreas cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

NMNAT1 is a member of the nicotinamide-nucleotide adenylyltransferases (NMNATs) which catalyze nicotinamide adenine dinucleotide (NAD) synthesis (PMID: 28445802). NMNAT is a central enzyme in NAD biosynthesis, catalyzing the formation of NAD<sup>+</sup> from nicotinamide mononucleotide (NMN) and ATP (PMID: 17402747). NMNAT1 is widely expressed with the highest levels in skeletal muscle, heart, and kidney (PMID: 11027696). Mutations in NMNAT1 have been shown associated with the LCA9 form of the retinal degeneration pathology Leber's congenital amaurosis (PMID: 22842229, 22842230).

## Notable Publications

| Author       | Pubmed ID | Journal          | Application |
|--------------|-----------|------------------|-------------|
| Ya Li        | 33053398  | Metabolism       | IF          |
| Yan Liu      | 33793246  | J Proteome Res   | WB          |
| Itaru Yasuda | 33795425  | J Am Soc Nephrol | IHC         |

## 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

\*\*\* 20ul sizes contain 0.1% BSA

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)

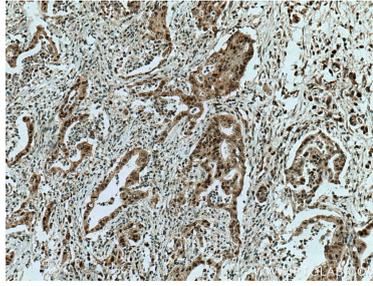
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



human testis tissue were subjected to SDS PAGE followed by western blot with 11399-1-AP (NMNAT1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11399-1-AP (NMNAT1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11399-1-AP (NMNAT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).