

For Research Use Only

NMNAT1 Polyclonal antibody

Catalog Number: 11399-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

11399-1-AP

Size:

500 µg/ml

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:

IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, pig

Cited Species:

human, mouse

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

Positive Controls:

WB: human testis tissue, mouse testis tissue, pig heart tissue

IHC: mouse skeletal muscle tissue, human pancreas cancer tissue

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⁺ 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

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

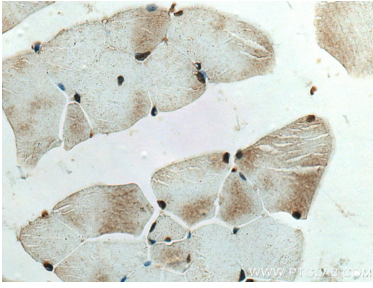
T: 4006900926

E: Proteintech-CN@ptglab.com

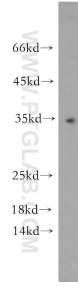
W: ptgcn.com

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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle 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).



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.