

# Human NMNAT-1 antibody

Catalog Number: ATGA0516

## PRODUCT INFORMATION

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**Catalog number**

ATGA0516

**Clone No.**

AT4G8

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q9HAN9

**NCBI Accession No.**

NP\_073624

**Alternative Names**

Nicotinamide nucleotide adenylyltransferase 1, Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 1, NMN/NaMN adenylyltransferase 1, Nicotinamide nucleotide adenylyltransferase, Leber's congenital amaurosis 9, LCA9, PNAT1, NMNAT

**Additional Information**

ATGA0186 has been replaced with a catalog number ATGA0516.

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human NMNAT1 (19-609aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB

# Human NMNAT-1 antibody

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## Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

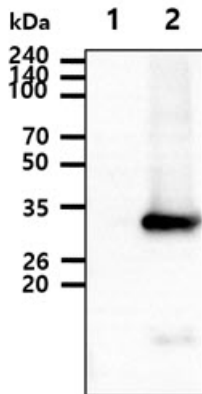
NMNAT1, also known as NMNAT or PNAT1, is a central enzyme in NAD biosynthesis, catalyzing the condensation of nicotinamide mononucleotide (NMN) or nicotinic acid mononucleotide (NaMN) with the AMP moiety of ATP to form NAD or NaAD. It is widely expressed with high levels in skeletal muscle, heart, liver and kidney. This protein appears to have the ability to protect against axonal degeneration following mechanical or toxic insults.

### General References

Emanuelli M. et al. (2001) J Biol Chem. 276(1):406-12.  
Zhou T,,et al. (2002) J Biol Chem. 277(15):13148-54.

## DATA

### Western blot analysis (WB)



The cell lysates were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NMNAT-1 antibody (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate (40ug)

Lane 2.: NMNAT1 transfected 293T cell lysate (10ug)