

Anti-NMNAT2 Antibody (clone Nady-1)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS18499**Specification**

Anti-NMNAT2 Antibody (clone Nady-1) - Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BZQ4
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Calculated MW	34439

Anti-NMNAT2 Antibody (clone Nady-1) - Additional Information**Gene ID** 23057**Alias Symbol** NMNAT2**Other Names**

NMNAT2, C1orf15, KIAA0479, NaMN adenylyltransferase 2, NMN adenylyltransferase 2, PNAT2

Target/Specificity

Recognizes human NMNAT2.

Reconstitution & Storage

Protein G purified

Precautions

Anti-NMNAT2 Antibody (clone Nady-1) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-NMNAT2 Antibody (clone Nady-1) - Protein Information**Name** NMNAT2 ([HGNC:16789](#))**Function**

Nicotinamide/nicotinate-nucleotide adenylyltransferase that acts as an axon maintenance factor (By similarity). Axon survival factor required for the maintenance of healthy axons: acts by delaying Wallerian axon degeneration, an evolutionarily conserved process that drives the loss of damaged axons (By similarity). Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP (PubMed:16118205, PubMed:17402747). Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate but with a lower efficiency (PubMed:16118205, PubMed:17402747). Cannot use triazofurin monophosphate (TrMP) as substrate (PubMed:16118205).

[16118205](http://www.uniprot.org/citations/16118205), PubMed: [17402747](http://www.uniprot.org/citations/17402747)). Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+) (PubMed: [16118205](http://www.uniprot.org/citations/16118205), PubMed: [17402747](http://www.uniprot.org/citations/17402747)). For the pyrophosphorolytic activity prefers NAD(+), NADH and NaAD as substrates and degrades nicotinic acid adenine dinucleotide phosphate (NHD) less effectively (PubMed: [16118205](http://www.uniprot.org/citations/16118205), PubMed: [17402747](http://www.uniprot.org/citations/17402747)). Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NaADP(+) (PubMed: [16118205](http://www.uniprot.org/citations/16118205), PubMed: [17402747](http://www.uniprot.org/citations/17402747)). Also acts as an activator of ADP- ribosylation by supporting the catalytic activity of PARP16 and promoting mono-ADP-ribosylation of ribosomes by PARP16 (PubMed: [34314702](http://www.uniprot.org/citations/34314702)).

Cellular Location

Golgi apparatus membrane; Lipid-anchor {ECO:0000250|UniProtKB:Q8BNJ3}. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q8BNJ3}; Lipid-anchor {ECO:0000250|UniProtKB:Q8BNJ3}. Cytoplasm. Cell projection, axon {ECO:0000250|UniProtKB:Q8BNJ3}. Note=Delivered to axons with Golgi- derived cytoplasmic vesicles. {ECO:0000250|UniProtKB:Q8BNJ3}

Tissue Location

Highly expressed in brain, in particular in cerebrum, cerebellum, occipital lobe, frontal lobe, temporal lobe and putamen. Also found in the heart, skeletal muscle, pancreas and islets of Langerhans.

Anti-NMNAT2 Antibody (clone Nady-1) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NMNAT2 Antibody (clone Nady-1) - Images