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NMNAT3 Antibody (C-Term)

Peptide-affinity purified goat antibody
Catalog # AF2746a

Specification

NMNAT3 Antibody (C-Term) - Product Information

Application	**E**
Primary Accession	Q96T66
Other Accession	NP_835471.1, 349565
Predicted	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**28322**

NMNAT3 Antibody (C-Term) - Additional Information

Gene ID 349565

Other Names
Nicotinamide mononucleotide adenylyltransferase 3, NMN adenylyltransferase 3, Nicotinate-nucleotide adenylyltransferase 3, NaMN adenylyltransferase 3, 2.7.7.18, Pyridine nucleotide adenylyltransferase 3, PNAT-3, 2.7.7.1, NMNAT3

Dilution
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NMNAT3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

NMNAT3 Antibody (C-Term) - Protein Information

Name NMNAT3 (HGNC:20989)

Function
Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP (PubMed:16118205, PubMed:17402747, PubMed:<a

href="http://www.uniprot.org/citations/26616331" target="_blank">26616331). Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate with the same efficiency. Can use triazofurin monophosphate (TrMP) as substrate. Can also use GTP and ITP as nucleotide donors. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+). For the pyrophosphorolytic activity, can use NAD(+), NADH, NaAD, nicotinic acid adenine dinucleotide phosphate (NHD), nicotinamide guanine dinucleotide (NGD) as substrates. Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NaADP(+). Protects against axonal degeneration following injury (PubMed:16118205, PubMed:17402747). May be involved in the maintenance of axonal integrity (By similarity). Also functions as a stress-response chaperone protein that prevents toxic aggregation of proteins; this function may be independent of its NAD(+) synthesis activity (PubMed:18344983).

Cellular Location
Mitochondrion

Tissue Location
Expressed in lung and spleen with lower levels in placenta and kidney.

NMNAT3 Antibody (C-Term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NMNAT3 Antibody (C-Term) - Images

NMNAT3 Antibody (C-Term) - References

Initial-rate kinetics of human NMN-adenylyltransferases: substrate and metal ion specificity, inhibition by products and multisubstrate analogues, and isozyme contributions to NAD+ biosynthesis. Sorci L, Cimadamore F, Scotti S, Petrelli R, Cappellacci L, Franchetti P, Orsomando G, Magni G. Biochemistry. 2007 Apr 24;46(16):4912-22. Epub 2007 Apr 3. PMID: 17402747