

NMNAT3 (aa149-162) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3589a**Specification**

NMNAT3 (aa149-162) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	Q96T66
Other Accession	NP_835471.1 , NP_001186976.1 , 349565
Reactivity	Human
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	28322

NMNAT3 (aa149-162) Antibody (internal region) - 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

WB~~1:1000

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 (aa149-162) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

NMNAT3 (aa149-162) Antibody (internal region) - Protein Information**Name** NMNAT3 ([HGNC:20989](#))**Function**

Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP (PubMed:16118205, PubMed:17402747, PubMed: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 (aa149-162) Antibody (internal region) - 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](#)

NMNAT3 (aa149-162) Antibody (internal region) - Images



AF3589a (0.1 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

NMNAT3 (aa149-162) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_835471.1; NP_001186976.1).

NMNAT3 (aa149-162) Antibody (internal region) - 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. PMID: 17402747