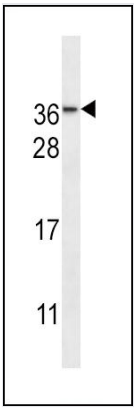
NMNAT3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NMNAT3, Polyclonal Antibody
Full Product Name	NMNAT3, ID (NMNAT3, Nicotinamide mononucleotide adenylyltransferase 3, Nicotinate-nucleotide adenylyltransferase 3, Pyridine nucleotide adenylyltransferase 3) (APC)
Product Gene Name	anti-NMNAT3 antibody
Product Synonym Names	NMNAT3; Nicotinamide mononucleotide adenylyltransferase 3; Nicotinate-nucleotide adenylyltransferase 3; Pyridine nucleotide adenylyltransferase 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	18,255 Da
OMIM	608702
3D Structure	ModBase 3D Structure for Q96T66
Immunogen	NMNAT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 149-178 amino acids from the Central region of human NMNAT3.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-NMNAT3 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-NMNAT3 antibody	Western Blot (WB), FLISA
Application Notes for anti-NMNAT3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NMNAT3 antibody	The coenzyme NAD and its derivatives are involved in hundreds of metabolic redox reactions and are utilized in protein ADP-ribosylation, histone deacetylation, and in some Ca(2+) signaling pathways. NMNAT (EC 2.7.7.1) 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 (Zhang et al., 2003 [PubMed 12574164]).
Product References and Citations for anti-NMNAT3 antibody	Di Stefano, M., et al. Blood Cells Mol. Dis. 45(1):33-39(2010). Lau, C., et al. J. Biol. Chem. 285(24):18868-18876(2010). Sorci, L., et al. Biochemistry 46(16):4912-4922(2007). Berger, F., et al. J. Biol. Chem. 280(43):36334-36341(2005). Magni, G., et al. Cell. Mol. Life Sci. 61(1):19-34(2004).

Other Notes	Small volumes of anti-NMNAT3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NMNAT3 purchase	MBS6325874 is an antibody targeting NMNAT3. Also known as NMNAT3, ID (NMNAT3, Nicotinamide mononucleotide adenylyltransferase 3, Nicotinate-nucleotide adenylyltransferase 3, Pyridine nucleotide adenylyltransferase 3) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NMNAT3 antibody
NMNAT3 Antibody (Center) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the NMNAT3 antibody detected the NMNAT3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NMNAT3. It may not necessarily be applicable to this product.

NCBI GI #	30039706
NCBI GeneID	349565
NCBI Accession #	NP_835471.1
UniProt Primary Accession #	Q96T66
UniProt Secondary Accession #	Q8N4G1; B3KVR6; D3DNF2; D3DNF3
UniProt Related Accession #	Q96T66
GenBank Nucleotide #	NM_178177.4
NCBI Official Full Name	nicotinamide/nicotinic acid mononucleotide adenylyltransferase 3 isoform 1
NCBI Official Synonym Full Names	nicotinamide nucleotide adenylyltransferase 3
NCBI Official Symbol	NMNAT3
NCBI Official Synonym Symbols	PNAT3; FKSG76; PNAT-3
UniProt Protein Name	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 3
UniProt Synonym Protein Names	Nicotinamide-nucleotide adenylyltransferase 3; NMN adenylyltransferase 3; Nicotinate-nucleotide adenylyltransferase 3 (EC:2.7.7.18); NaMN adenylyltransferase 3; Pyridine nucleotide adenylyltransferase 3 (EC:2.7.7.1); PNAT-3
Protein Family	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase
UniProt Gene Name	NMNAT3
UniProt Synonym Gene Names	NMN/NaMN adenylyltransferase 3; NMN adenylyltransferase 3; NaMN adenylyltransferase 3; PNAT-3
UniProt Entry Name	NMNA3_HUMAN
NCBI Protein Information	nicotinamide/nicotinic acid mononucleotide adenylyltransferase 3

NCBI Summary for NMNAT3	This gene encodes a member of the nicotinamide/nicotinic acid mononucleotide adenylyltransferase family. These enzymes use ATP to catalyze the synthesis of nicotinamide adenine dinucleotide or nicotinic acid adenine dinucleotide from nicotinamide mononucleotide or nicotinic acid mononucleotide, respectively. The encoded protein is localized to mitochondria and may also play a neuroprotective role as a molecular chaperone. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for NMNAT3	NMNAT3: Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP. 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. Belongs to the eukaryotic NMN adenylyltransferase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; Apoptosis; Transferase; EC 2.7.7.1; EC 2.7.7.18; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide Chromosomal Location of Human Ortholog: 3q23 Cellular Component: mitochondrion; cytosol Molecular Function: nicotinamide-nucleotide adenylyltransferase activity; nicotinate-nucleotide adenylyltransferase activity; ATP binding Biological Process: NAD biosynthetic process; vitamin metabolic process; NAD metabolic process; response to wounding; water-soluble vitamin metabolic process
Research Articles on NMNAT3	**1.** NMNAT3 is absent in mitochondria in human cells, and, akin to plants and yeast, cytosolic NAD maintains the mitochondrial NAD pool.
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