

Rabbit NMNAT2 Polyclonal Antibody | anti-NMNAT2 antibody

NMNAT2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329111	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)	ELISA

PRODUCT SYNONYMS

NMNAT2; Polyclonal Antibody; NMNAT2 Antibody; C1orf15; KIAA0479; MGC2756; NaMN adenylyltransferase 2; Nicotinamide mononucleotide adenylyltransferase 2; Nicotinamide nucleotide adenylyltransferase 2; Nicotinate-nucleotide adenylyltransferase 2; NMN adenylyltransferase 2; NMNA2_HUMAN; NMNAT 2; Nmnat2; PNAT 2; PNAT2; Pyridine nucleotide adenylyltransferase 2; anti-NMNAT2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	NMNAT2 Antibody detects endogenous levels of total NMNAT2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	307
Applicable Applications for anti-NMNAT2 antibody	ELISA
Immunogen	A synthesized peptide derived from human NMNAT2, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA329111 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from C6 cells, using NMNAT2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NMNAT2 antibody	Function: Nicotinamide/nicotinate-nucleotide adenylyltransferase that acts as an axon maintenance factor (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, PubMed:17402747). Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+) (PubMed:16118205, PubMed:17402747). For the pyrophosphorolytic activity prefers NAD(+), NADH and NaAD as substrates and degrades nicotinic acid adenine dinucleotide phosphate (NHD) less effectively (PubMed:16118205, PubMed:17402747). Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NaADP(+) (PubMed:16118205, PubMed:17402747). 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). Post Translational Modifications: Degraded in response to injured neurite. Degradation is probably caused by ubiquitination by MYCBP2 (By similarity). Ubiquitinated on threonine and/or serine residues by MYCBP2; consequences of threonine and/or serine ubiquitination are however unclear (PubMed:29643511). Palmitoylated; palmitoylation is required for membrane association. Subcellular Location: Golgi apparatus membrane>Lipid-anchor. Cytoplasmic vesicle membrane>Lipid-anchor. Cytoplasm. Cell projection>Axon. Note: Delivered to axons with Golgi-derived cytoplasmic vesicles. Tissue Specificity: 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. Subunit Structure: Monomer. Similarity: Belongs to the eukaryotic NMN adenylyltransferase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24307989
NCBI GeneID	23057
NCBI Accession #	NP_055854.1
NCBI GenBank Nucleotide #	NP_055854.1
UniProt Accession #	Q9BZQ4
Molecular Weight	Observed Molecular Weight: (Observed)34kD. Predicted Molecular Weight: (Calculated)34kDa.
NCBI Official Full Name	nicotinamide/nicotinic acid mononucleotide adenylyltransferase 2 isoform 1
NCBI Official Synonym Full Names	nicotinamide nucleotide adenylyltransferase 2
NCBI Official Symbol	NMNAT2
NCBI Official Synonym Symbols	PNAT2; C1orf15
NCBI Protein Information	nicotinamide/nicotinic acid mononucleotide adenylyltransferase 2
UniProt Protein Name	Nicotinamide mononucleotide adenylyltransferase 2
UniProt Gene Name	NMNAT2
UniProt Synonym Gene Names	C1orf15; KIAA0479; NMN adenylyltransferase 2; NaMN adenylyltransferase 2
UniProt Entry Name	NMNA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.