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Product datasheet for AM09374PU-N

NMNAT1 Mouse Monoclonal Antibody [Clone ID: AT4A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT4A2
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western blot (1:500 - 1:1000).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human NMNAT1 (1-279aa) purified from E. coli
Specificity:	The antibody recognizes human NMNAT1. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	nicotinamide nucleotide adenylyltransferase 1
Database Link:	Entrez Gene 64802 Human Q9HAN9

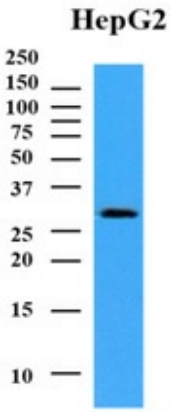
View online »

Background: Nicotinamide mononucleotide adenylyltransferase 1 is an enzyme that in humans is encoded by the NMNAT1 gene. It is an essential enzyme because it catalyzes the final step of NAD+ biosynthesis. There are three isoforms in humans that exhibit tissue- and organelle-specific expression. NMNAT-1 is localized exclusively in the nucleus, whereas NMNAT-2 and NMNAT-3 are found in the Golgi and mitochondria, respectively. NMNAT1 constitute a nuclear NAD+ salvage pathway which regulates the functions of NAD+-dependent enzymes such as the protein deacetylase SIRT1. NMNAT1 protects neurons from neuronal activity induced degeneration.

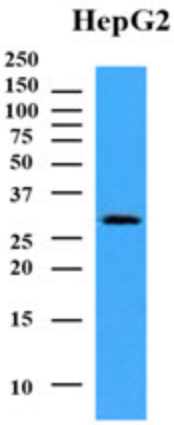
Synonyms: NMNAT, NMN adenylyltransferase 1

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism

Product images:



Cell lysates of HepG2 (35ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NMNAT1 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis: Cell lysates of HepG2 (35 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NMNAT1 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.