

Product Name: KD-Validated NMNAT1 Mouse Monoclonal Antibody**Catalog #: KVA00521**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 31.9kDa

Antigen Information

Gene Name	NMNAT1 NMNAT1; Nicotinamide Nucleotide Adenylyltransferase 1; NMNAT; Nicotinamide/Nicotinic Acid Mononucleotide Adenylyltransferase 1; PNAT1; Nicotinate-Nucleotide Adenylyltransferase 1; NMN/NaMN Adenylyltransferase 1; NaMN Adenylyltransferase 1;
Alternative Names	NMN Adenylyltransferase 1; LCA9; Nicotinamide Mononucleotide Adenylyltransferase 1; Nicotinamide-Nucleotide Adenylyltransferase 1; Nicotinamide Nucleotide Adenylyltransferase; Pyridine Nucleotide Adenylyltransferase 1; Leber'S Congenital Amaurosis 9; Leber Congenital Amaurosis 9; EC 2.7.7.18; EC 2.7.7.1; SHILCA
Gene ID	64802.0
SwissProt ID	Q9HAN9
Immunogen	Recombinant protein of human NMNAT1

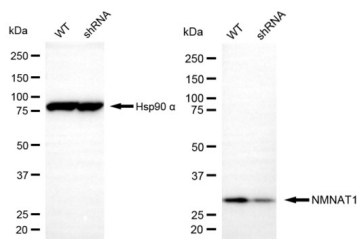
Background

This gene encodes an enzyme which catalyzes a key step in the biosynthesis of nicotinamide adenine dinucleotide (NAD). The encoded enzyme is one of several nicotinamide nucleotide adenylyltransferases, and is specifically localized to the cell nucleus. Activity of this protein leads to the activation of a nuclear deacetylase that functions in the protection of damaged neurons. Mutations in this gene have been associated with Leber congenital amaurosis 9. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are located on chromosomes 1, 3, 4, 14, and 15. [provided by RefSeq, Jul 2014]

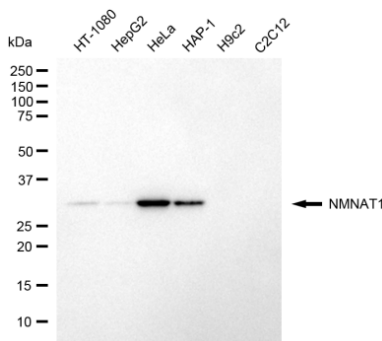
Research Area

Cell Biology

Image Data



Western blotting analysis using NMNAT1 antibody (KVA00521). NMNAT1 expression in wild-type (WT) and NMNAT1 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NMNAT1 antibody (KVA00521, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:20,000) respectively.



Western blotting analysis using NMNAT1 antibody (KVA00521). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NMNAT1 antibody (KVA00521, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.