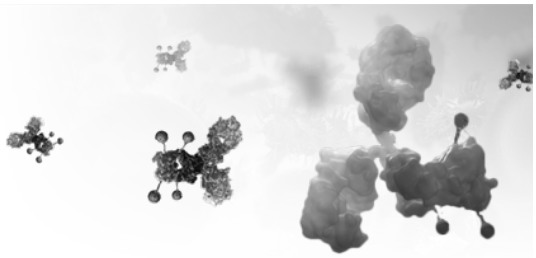

Anti-NMNAT1 monoclonal antibody, clone 2G8 (DCABH-745)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to Nmnat1
Antigen Description	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. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+). For the pyrophosphorolytic activity, prefers NAD(+) and NAAD as substrates and degrades NADH, nicotinic acid adenine dinucleotide phosphate (NHD) and nicotinamide guanine dinucleotide (NGD) less effectively. Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NAADP(+). Protects against axonal degeneration following mechanical or toxic insults.
Immunogen	Recombinant full length protein, corresponding to amino acids 1-279 of Human Nmnat1, produced in HEK293T cells (NP_073624).
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	2G8
Purification	Purified from Mouse ascites fluids by affinity chromatography.
Conjugate	Unconjugated
Applications	WB, ICC/IF
Positive Control	Nmnat1 transfected HEK293T cell lysate and COS7 cells transiently transfected with Nmnat1
Format	Liquid

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Size	100 µl
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 1% BSA, 50% Glycerol
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	NMNAT1 nicotinamide nucleotide adenylyltransferase 1 [Homo sapiens]
Official Symbol	NMNAT1
Synonyms	NMNAT1; nicotinamide nucleotide adenylyltransferase 1; nicotinamide nucleotide adenylyltransferase; nicotinamide mononucleotide adenylyltransferase 1; NMNAT; PNAT1; NMN adenylyltransferase 1; NaMN adenylyltransferase 1; pyridine nucleotide adenylyltransfe
Entrez Gene ID	64802
Protein Refseq	NP_073624
UniProt ID	A0A024R4E1
Chromosome Location	1p36.22
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; NAD biosynthesis II (from tryptophan), organism-specific biosystem; NAD biosynthesis III, organism-specific biosystem; NAD biosynthesis from 2-amino-3-carboxymuconate semialdehyde, organism-specific biosystem.
Function	ATP binding; nicotinamide-nucleotide adenylyltransferase activity; nicotinamide-nucleotide adenylyltransferase activity; nicotinate-nucleotide adenylyltransferase activity; nucleotide binding; nucleotidyltransferase activity; protein binding; transferase

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