NMNAT1 Mouse mAb

Catalog No	YP-mAb-18788
Isotype	IgG
Reactivity	Human,Mouse
Applications	WB
Gene Name	NMNAT1 NMNAT
Protein Name	Nicotinamide mononucleotide adenylyltransferase 1 (NMN adenylyltransferase 1) (Nicotinate-nucleotide adenylyltransferase 1) (NaMN adenylyltransferase 1) (EC 2.7.7.18)
Immunogen	Synthesized peptide derived from human NMNAT1
Specificity	This antibody detects endogenous levels of NMNAT1 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	31kD
Cell Pathway	Nucleus .
Tissue Specificity	Widely expressed with highest levels in skeletal muscle, heart and kidney. Also expressed in the liver pancreas and placenta. Widely expressed throughout the brain.
Function	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 . Involved in the synthesis of ATP in the nucleus, together with PARP1, PARG and NUDT5 . Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming . Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NaADP(+) . Protects against axonal degeneration following mechanical or toxic insults (By similarity).

Background

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images