β-Nicotinamide Mononucleotide Monoclonal antibody

Catalog Number:68638-1-lg

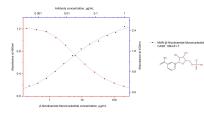


| Basic Information | Catalog Number: 68638-1-1g Size: 1000 µ g/ml Source: Mouse Isotype: IgG1 | GenBank Accession Number: GeneID (NCBI): Full Name: | Purification Method: Protein G purification CloneNo.: 3A1F11 Recommended Dilutions: ELISA 1:2000-1:20000 |
|------------------------|--|---|---|
| Applications | Tested Applications: ELISA Species Specificity: chemical compound | Positive Co ELISA : β -Ι | ontrols: Nicotinamide Mononucleotide, urine |
| Background Information | Nicotinamide mononucleotide ("NMN" and " β -NMN") is a nucleotide derived from ribose, nicotinamide, nicotinamide riboside and niacin. In humans, several enzymes use NMN to generate nicotinamide adenine dinucleotide (NADH). In mice, it has been proposed that NMN is absorbed via the small intestine within 10 minutes of oral uptake and converted to nicotinamide adenine dinucleotide (NAD+) through the Slc12a8 transporter. However, this observation has been challenged, and the matter remains unsettled. Maintain cell quality and reduce cell aging with β -nicotinamide mononucleotide (β -NMN), an intermediate in the biosynthesis of nicotinamide adenine dinucleotide (NAD+) (Bogan & Brenner). β -NMN is a product of the nicotinamide phosphoribosyltransferase (NAMPT) reaction and is converted to NAD+ by nicotinamide-nucleotide adenylyltransferase. | | |
| Storage | Storage: Store at -20°C. Stable for one year a Storage Buffer: PBS with 0.02% sodium azide and 5 Aliquoting is unnecessary for -20°C | 0% glycerol pH 7.3. | |

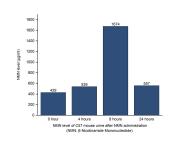
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



Indirect ELISA and competitive ELISA results show that this antibody is specific to β -Nicotinamide Mononucleotide (NMN). Indirect ELISA was performed by coating BSA conjugated β - Nicotinamide Mononucleotide (NMN) at ~10ng/well followed by blocking with 1% BSA. Serial diluted primary antibody was added to the plates and incubated at 37°C. HRP-goat anti-mouse was used for detection. Competitive ELISA was performed similarly except that different concentration



BSA conjugated β -Nicotinamide Mononucleotide (NMN) was coated in 96 well plate at ~10 ng/well (by NMN amount), followed by blocking with 1% BSA. Different concentrations of NMN standard as well as diluted urine from NMN orally administrated mouse were mixed with 10 ng/mL β -Nicotinamide Mononucleotide antibody 68638-1-lg respectively. Urine NMN was calculated based on standard curve.