

Coenzyme NAD Rabbit mAb

Catalog No.: A21047 **Recombinant**

Basic Information

Observed MW

Refer to figures

Calculated MW

Category

Primary antibody

Applications

DB, ELISA

Cross-Reactivity

Species independent

CloneNo number

ARC51050

Background

The coenzyme NAD is involved in oxidation-reduction reactions critical for glycolysis, fatty acid oxidation, the TCA cycle, and complex I of the mitochondrial respiratory chain and also is a key regulator of autophagy. At least two different mechanisms are involved. First, the NAD⁺-dependent deacetylase SIRT1 activates autophagy by directly deacetylating ATG proteins. Under starvation conditions, the increased NAD⁺/NADH ratio activates SIRT1, which results in stimulation of mitophagy. Second, the hydrogen of NADH can be transferred to NADP⁺ to form NADPH via the energy-linked transhydrogenase. In the fed state, when the NAD⁺/NADH ratio falls, NADPH inhibits autophagy by scavenging of ROS via the glutathione peroxidase-glutathione reductase system and by preventing the production of ROS at complex I of the respiratory chain.

Recommended Dilutions

DB 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

CAS:53-84-9

Swiss Prot

Immunogen

NAD

Synonyms

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



The Coenzyme NAD Rabbit mAb (A21047) are tested in Dot Blot against NAD and deoxynucleotide,adenosine.
m6A 8 - ATAACTGG-m6A-CCGAATGG
m6A 9 - ATAACTGGACCGAATGG