#### A21047

Leader in Biomolecular Solutions for Life Science

# **Coenzyme NAD Rabbit mAb**

Catalog No.: A21047 Recombinant



#### **Basic Information**

**Observed MW** Refer to figures

**Calculated MW** 

Category Small Molecule-specific Antibody

Applications ELISA,DB

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 1 of the respiratory chain.

#### **Recommended Dilutions**

### Immunogen Information

DB

1:500 - 1:1000 **Gene ID** CAS:53-84-9 Swiss Prot

NAD

Synonyms

Immunogen

Contact

# Product Information

www.abclonal.com

Isotype IgG Purification Affinity purification

Storage

Source

Rabbit

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