# 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**

#### 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

Chemical compounds corresponding to Coenzyme.

#### **Synonyms**

# Contact

### **Product Information**

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#### 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