Coenzyme NAD Monoclonal Antibody



CAB21047

Product Information

Product SKU: CAB21047 **Gene ID**: CAS:53-84-9 **Size**: 20uL, 100uL

Clone No: ARC51050 Host Species: Rabbit Reactivity: Species independent

Additional Information

Observed MW: Refer to figures Conjugate: Unconjugated

Calculated MW: - Isotype: IgG

Immunogen Information

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 Dilution: DB,1:500 - 1:1000

Synonyms: -

Purifcation Method: Affinity purification

Immunogen: NAD

Storage: Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.05% proclin300,0.05% BSA,50%

glycerol,pH7.3.