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NDUFA1 (AB4293) Rabbit mAb

M1975

Key Features

Host Species
• Rabbit

Reactivity
• Human

Applications
• WB, IHC-P, ELISA

MW
• 8 kDa (calculated)
• 10 kDa (observed)

Isotype
• IgG

Recommended Dilution Ratios

Application	Dilution
WB, IHC-P, ELISA	WB, 1:500-1:1000 | IHC-P, 1:50-1:200 | ELISA, Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Storage

Storage Conditions	Store at-20℃. Avoid freeze / thaw cycles.
Storage buffer	The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal
Clone Number	AB4293
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1 - 70 of human NDUFA1 (O15239).
Specificity	This antibody detects endogenous levels of NDUFA1 protein.
Purification	Affinity purification Protein A
Concentration	Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name	NDUFA1
Protein Name	NDUFA1

Database Link

Organism	Swiss Prot.	Gene ID
Human	O15239	4694

Background

The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial membrane with a C-terminal hydrophilic domain interacting with globular subunits of complex I. The highly conserved two-domain structure suggests that this feature is critical for the protein function and might act as an anchor for the NADH:ubiquinone oxidoreductase complex at the inner mitochondrial membrane. However, the NDUFA1 peptide is one of about 31 components of the "hydrophobic protein" (HP) fraction of complex I which is involved in proton translocation. Thus the NDUFA1 peptide may also participate in that function.

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