Datasheet for ABIN6719648

anti-Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4) (AA 10-459) antibody

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Overview

Quantity:	100 µg
Target:	Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4)
Binding Specificity:	AA 10-459
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Rabbit IgG polyclonal antibody for MT-ND4 detection. Tested with WB, Direct ELISA in Human.
Immunogen:	E.coli-derived human MT-ND4 recombinant protein (Position: M10-S459).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for MT-ND4 detection. Tested with WB, Direct ELISA in Human.
Purification:	Immunogen affinity purified.

Target Details

Target:	Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4)
Alternative Name:	MT-ND4 (MT-ND4 Products)
Background:	Synonyms: NADH-ubiquinone oxidoreductase chain 4, NADH dehydrogenase subunit 4, MT-

Target Details

	ND4, MTND4, NADH4, ND4, Background: NADH-ubiquinone oxidoreductase chain 4 is a protein that in humans is encoded by the mitochondrial geneMT-ND4. MT-ND4 is a subunit of the respiratory chain Complex I that is believed to belong to the minimal assembly of core proteins required to catalyze NADH dehydrogenation and electron transfer to ubiquinone (coenzyme Q10). Initially, NADH binds to Complex I and transfers two electrons to the isoalloxazine ring of the flavin mononucleotide (FMN) prosthetic arm to form FMNH2. The electrons are transferred through a series of iron-sulfur (Fe-S) clusters in the prosthetic arm and finally to coenzyme Q10 (CoQ), which is reduced to ubiquinol (CoQH2). The flow of electrons changes the redox state of the protein, resulting in a conformational change and pK shift of the ionizable side chain, which pumps four hydrogen ions out of the mitochondrial matrix.
Gene ID:	4538
UniProt:	P03905

Application Details

Application Notes:	Application details: Western blot|0.1-0.5 µg/mL Direct ELISA|0.1-0.5 µg/mL
Comment:	Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.