

MTCO2 (AB1663) Rabbit mAb

M3032

Key Features

Host Species

- Rabbit

Reactivity

- Human,

Applications

- WB, IHC, IF, IP, ELISA

MW

- 26 kDa (calculated)
- 21 kDa (observed)

Isotype

- IgG

Recommended Dilution Ratios

Application

WB, IHC, IF, IP, ELISA

Dilution

WB, 1:1000-1:5000 | IHC, 1:200-1:1000 | IF, 1:200-1:1000 | IP, 0.5 µg-4 µg antibody for 200 µg-400 µg extracts of whole cells. | ELISA, Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements

Storage

Storage Conditions

Store at -20°C. Avoid freeze / thaw cycles.

Storage buffer

The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300.

Basic Information

Clonality Monoclonal

Clone Number AB1663

Immunogen Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Specificity This antibody detects endogenous levels of MTCO2 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 MT-CO2 COII COXII MTCO2

Protein Name MTCO2

Database Link	Organism	Swiss Prot.	Gene ID
	Human	P00403	4513

Background

cofactor:Copper A. , **disease:**Defects in MT-CO2 are a cause of cytochrome c oxidase deficiency (COX deficiency) [MIM:220110], also called mitochondrial complex IV deficiency. COX deficiency is a clinically heterogeneous disorder. The clinical features are ranging from isolated myopathy to severe multisystem disease, with onset from infancy to adulthood. , **disease:**Defects in MT-CO2 are associated with tumor formation. , **function:**Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Subunits 1-3 form the functional core of the enzyme complex. Subunit 2 transfers the electrons from cytochrome c via its binuclear copper A center to the bimetallic center of the catalytic subunit 1. , **similarity:**Belongs to the cytochrome c oxidase subunit 2 family. ,



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