

# NDUFA4 Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI16091

## Product Information

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Application	WB
Primary Accession	<a href="#">O00483</a>
Other Accession	<a href="#">NP_002480</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	9370

## Additional Information

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Gene ID	4697
Alias Symbol Other Names	NDUFA4, Cytochrome c oxidase subunit NDUFA4, Complex I-MLRQ, CI-MLRQ, NADH-ubiquinone oxidoreductase MLRQ subunit, NDUFA4
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 $\mu$ l of distilled water. Final Anti-NDUFA4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	NDUFA4 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	COXFA4 ( <a href="#">HGNC:7687</a> )
Synonyms	NDUFA4
Function	Component of the cytochrome c oxidase, the last enzyme in the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol- cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the ATP synthase. Cytochrome c oxidase is the component of the respiratory

chain that catalyzes the reduction of oxygen to water. Electrons originating from reduced cytochrome c in the intermembrane space (IMS) are transferred via the dinuclear copper A center (CU(A)) of subunit 2 and heme A of subunit 1 to the active site in subunit 1, a binuclear center (BNC) formed by heme A3 and copper B (CU(B)). The BNC reduces molecular oxygen to 2 water molecules using 4 electrons from cytochrome c in the IMS and 4 protons from the mitochondrial matrix (PubMed:[22902835](#)). COXFA4 is required for complex IV maintenance (PubMed:[22902835](#)).

**Cellular Location** Mitochondrion inner membrane; Single-pass membrane protein

## Background

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Cytochrome c oxidase (COX, complex IV) is the terminal component of the mitochondrial respiratory chain that catalyzes the reduction of oxygen to water. Required for complex IV maintenance.

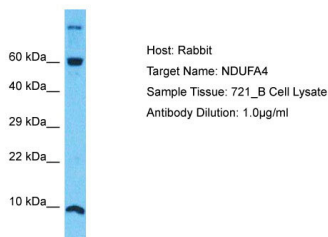
## References

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Kim J.W.,et al.Biochem. Mol. Biol. Int. 43:669-675(1997).  
Kanagarajah D.,et al.Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.  
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.  
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Scherer S.W.,et al.Science 300:767-772(2003).

## Images

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Host: Rabbit  
Target Name: NDUF44  
Sample Tissue: 721\_B Cell Lysate  
Antibody Dilution: 1.0µg/ml

Host: Rabbit  
Target Name: NDUF44  
Sample Tissue: 721\_B Whole Cell lysates  
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.