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COX6B1 Antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15391

Specification

COX6B1 Antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	P14854
Other Accession	NM_001863, NP_001854
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Yeast, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Yeast, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**10kDa KDa**

COX6B1 Antibody - N-terminal region - Additional Information

Gene ID 1340

Alias Symbol	**COX6B, COXG, COXVIb1**

Other Names
Cytochrome c oxidase subunit 6B1, Cytochrome c oxidase subunit VIb isoform 1, COX VIb-1, COX6B1, COX6B

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-COX6B1 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
COX6B1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

COX6B1 Antibody - N-terminal region - Protein Information

Name COX6B1

Synonyms COX6B

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.

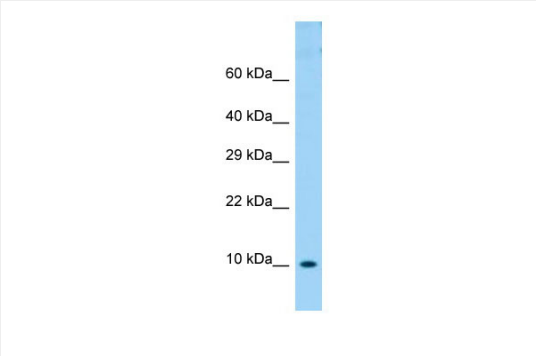
Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side

COX6B1 Antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

COX6B1 Antibody - N-terminal region - Images



Host: Rabbit
Target Name: COX6B1
Sample Tissue: OVCAR-3 Whole cell lysate
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Antibody Dilution: 1.0µg/ml

COX6B1 Antibody - N-terminal region - References

Taanman J.-W.,et al.Nucleic Acids Res. 17:1766-1766(1989).
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Carrero-Valenzuela R.D.,et al.Gene 102:229-236(1991).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.