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Anti-COXG / COX6B1 Antibody (clone 5D3)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17641

Specification

Anti-COXG / COX6B1 Antibody (clone 5D3) - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P14854
Predicted	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1,k**
Calculated MW	**10192**

Anti-COXG / COX6B1 Antibody (clone 5D3) - Additional Information

Gene ID 1340

Alias Symbol	**COX6B1**

Other Names
COX6B1, COX6B, COXVIb1, COX VIb-1, COXG

Reconstitution & Storage
Protein A purified

Precautions
Anti-COXG / COX6B1 Antibody (clone 5D3) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-COXG / COX6B1 Antibody (clone 5D3) - 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

Anti-COXG / COX6B1 Antibody (clone 5D3) - 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

Anti-COXG / COX6B1 Antibody (clone 5D3) - Images