

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 Cytometry](#)
- [Cell Culture](#)

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