

Anti-COXG / COX6B1 Antibody (clone 5D3)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS17641

Product Information

Application	WB, IHC-P, E
Primary Accession	P14854
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Names	5D3
Calculated MW	10192

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.

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

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