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COXG / COX6B1 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS16852

Specification

COXG / COX6B1 Antibody - Product Information

Application	**IHC**
Primary Accession	P14854
Other Accession	1340
Reactivity	**Human, Mouse, Rat, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**10192**

COXG / COX6B1 Antibody - Additional Information

Gene ID 1340

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

Target/Specificity
Human COXG / COX6B1

Reconstitution & Storage
PBS, pH 7.4, 0.03% Proclin 300, 50% glycerol. Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions
COXG / COX6B1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

COXG / COX6B1 Antibody - 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.

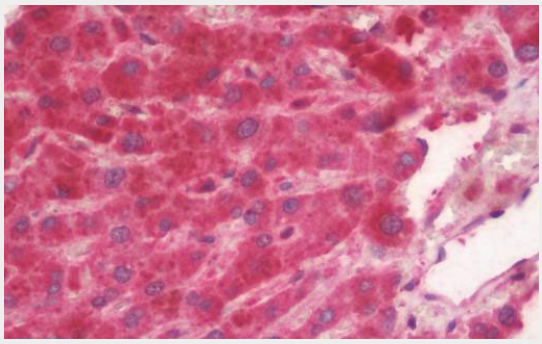
Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side

COXG / COX6B1 Antibody - 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

COXG / COX6B1 Antibody - Images



Anti-COXG / COX6B1 antibody IHC staining of human liver.

COXG / COX6B1 Antibody - Background

Connects the two COX monomers into the physiological dimeric form.

COXG / COX6B1 Antibody - References

Taanman J.-W.,et al.Nucleic Acids Res. 17:1766-1766(1989).
Taanman J.-W.,et al.Gene 93:285-291(1990).
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.