

COX8C Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55382

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q7Z4L0
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	8129

Additional Information

Gene ID	341947
Other Names	Cytochrome c oxidase subunit 8C, mitochondrial, Cytochrome c oxidase polypeptide 8 isoform 3, Cytochrome c oxidase polypeptide VIII isoform 3, COX VIII-3, Cytochrome c oxidase subunit 8-3, COX8-3, Cytochrome c oxidase subunit VIIIC, COX8C
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	COX8C
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 {ECO:0000250|UniProtKB:P10175};
Single-pass membrane protein {ECO:0000250|UniProtKB:P10175}

Tissue Location

It is not yet known where COX8C is expressed.

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