

Cytochrome C Oxidase subunit VIc/COX6C Rabbit mAb

Catalog # AP75323

Product Information

Application	WB, IHC-P
Primary Accession	P09669
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	8781

Additional Information

Gene ID	1345
Other Names	COX6C
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	COX6C
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.

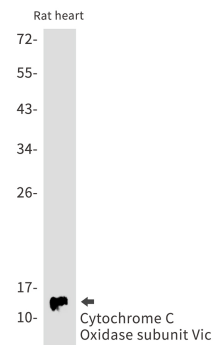
Cellular Location

Mitochondrion inner membrane; Single-pass membrane protein

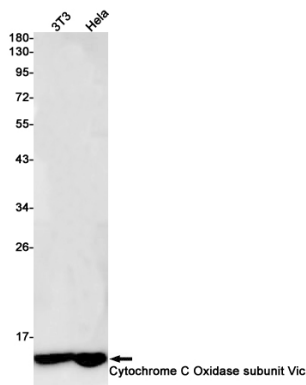
Background

This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.

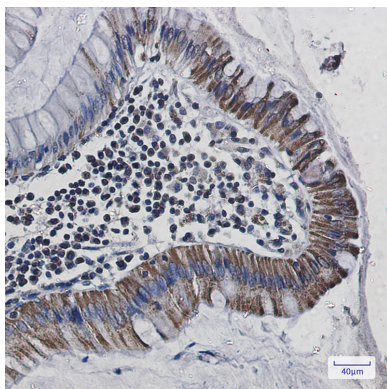
Images



Western blot analysis of Cytochrome C Oxidase subunit Vic in rat heart lysates using Cytochrome C Oxidase subunit Vic antibody.



Western blot analysis of Cytochrome C Oxidase subunit Vic in 3T3, Hela lysates using Cytochrome C Oxidase subunit Vic antibody.



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using Cytochrome C Oxidase subunit Vic antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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