

# Anti-COX6C Antibody

Rabbit polyclonal antibody to COX6C

Catalog # AP61198

## Product Information

<b>Application</b>	WB, IF/IC, IHC
<b>Primary Accession</b>	<a href="#">P09669</a>
<b>Other Accession</b>	<a href="#">Q9CPQ1</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	8781

## Additional Information

<b>Gene ID</b>	1345
<b>Other Names</b>	Cytochrome c oxidase subunit 6C; Cytochrome c oxidase polypeptide VIc
<b>Target/Specificity</b>	Recognizes endogenous levels of COX6C protein.
<b>Dilution</b>	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/200), IF/IC (1/100 - 1/500)
<b>Format</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

<b>Name</b>	COX6C
<b>Function</b>	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.

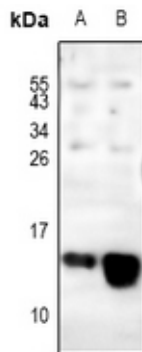
## Cellular Location

Mitochondrion inner membrane; Single-pass membrane protein

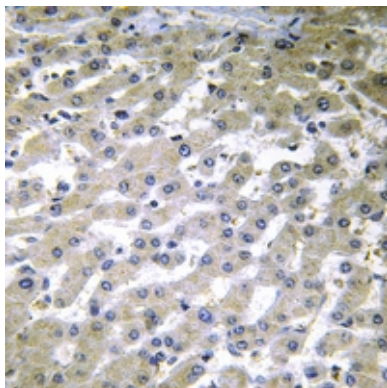
## Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human COX6C. The exact sequence is proprietary.

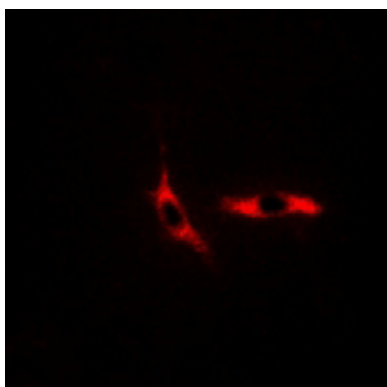
## Images



Western blot analysis of COX6C expression in rat brain (A), mouse brain (B) whole cell lysates.



Immunohistochemical analysis of COX6C staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of COX6C staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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