

# Complex III Subunit 2 Rabbit mAb

Catalog # AP79008

## Product Information

<b>Application</b>	WB, IHC-P, FC, IP, ICC
<b>Primary Accession</b>	<a href="#">P22695</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Calculated MW</b>	48443

## Additional Information

<b>Gene ID</b>	7385
<b>Other Names</b>	UQCRC2
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A FC~~1:10~50 IP~~N/A ICC~~N/A
<b>Format</b>	10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

<b>Name</b>	UQCRC2
<b>Function</b>	<p>Component of the ubiquinol-cytochrome c oxidoreductase, a multisubunit transmembrane complex that is part of 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. The cytochrome b-c1 complex catalyzes electron transfer from ubiquinol to cytochrome c, linking this redox reaction to translocation of protons across the mitochondrial inner membrane, with protons being carried across the membrane as hydrogens on the quinol. In the process called Q cycle, 2 protons are consumed from the matrix, 4 protons are released into the intermembrane space and 2 electrons are passed to cytochrome c (By similarity). The 2 core subunits UQCRC1/QCR1 and UQCRC2/QCR2 are homologous to the 2 mitochondrial-processing peptidase (MPP) subunits beta-MPP and alpha-MPP respectively, and they seem to have preserved their MPP processing properties (By similarity). May</p>

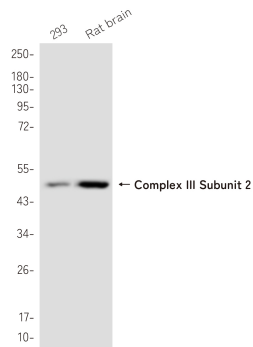
be involved in the in situ processing of UQCRF51 into the mature Rieske protein and its mitochondrial targeting sequence (MTS)/subunit 9 when incorporated into complex III (Probable).

## Cellular Location

Mitochondrion inner membrane {ECO:0000250 | UniProtKB:P07257};  
Peripheral membrane protein {ECO:0000250 | UniProtKB:P07257}; Matrix side {ECO:0000250 | UniProtKB:P07257}

## Images

---



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