

KD-Validated Anti-UQCRC2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1711

Product Information

Application	WB, FC, ICC
Primary Accession	P22695
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB2220
Calculated MW	48443
Gene Name	UQCRC2
Aliases	UQCRC2; Ubiquinol-Cytochrome C Reductase Core Protein 2; UQCR2; QCR2; Ubiquinol-Cytochrome-C Reductase Complex Core Protein 2; Ubiquinol-Cytochrome C Reductase Core Protein II; Cytochrome B-C1 Complex Subunit 2, Mitochondrial; Complex III Subunit; Cytochrome Bc-1 Complex Core Protein II; Core Protein II; MC3DN5
Immunogen	A synthesized peptide derived from human UQCRC2

Additional Information

Gene ID	7385
Other Names	Cytochrome b-c1 complex subunit 2, mitochondrial, Complex III subunit 2, Core protein II, Ubiquinol-cytochrome-c reductase complex core protein 2, UQCRC2

Protein Information

Name	UQCRC2
Function	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 be involved in the in situ processing of UQCRFS1 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}

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