

UQCRC2 Rabbit pAb

CatalogNo: YN5745

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 50kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human UQCRC2. AA range:115-215

Specificity This antibody detects endogenous levels of UQCRC2 at Human, Mouse, Rat

Target Information

Gene name UQCRC2

Protein Name Cytochrome b-c1 complex subunit 2, mitochondrial (Complex III subunit 2) (Core protein II) (Ubiquinol-cytochrome-c reductase complex core protein 2)

Organism	Gene ID	UniProt ID
Human	7385;	P22695;
Mouse	67003;	Q9DB77;
Rat	293448;	P32551;

Cellular Localization Mitochondrion inner membrane ; Peripheral membrane protein ; Matrix side .

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) .

| Validation Data

| Contact information

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