



Mouse Monoclonal Antibody **UQCRC2** conjugated to Sepharose Beads

CatalogNo: **ANT8104-S**

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

UQCRC2 (ANT0070R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Host Species

- Rabbit
- Human, Mouse, Rat,

Reactivity

- WB, IHC, IF, IP, ELISA

Applications

MW

- 48kD (Calculated)
 - IgG, Kappa
- 48kD (Observed)

Isotype

Recommended Dilution Ratios

IP

Basic Information

Clonality Monoclonal

Clone Number ANT0070R

Endogenous

Gene name UQCRC2

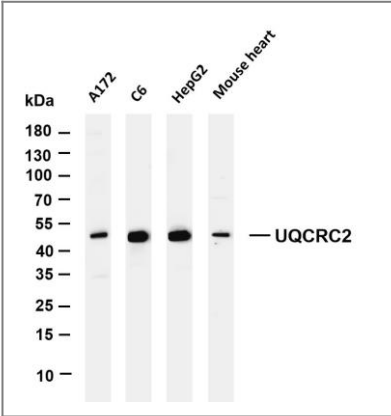
Protein Name Cytochrome b-c1 complex subunit 2, mitochondrial (Complex III subunit 2) (Core protein II) (Ubiquinol-cytochrome-c reductase complex core protein 2)

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

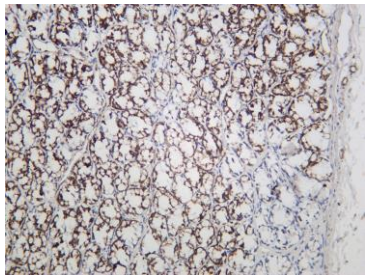
Cellular Localization Mitochondrion inner membrane

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 UQCRC1 into the mature Rieske protein and its mitochondrial targeting sequence (MTS)/subunit 9 when incorporated into complex III (Probable).

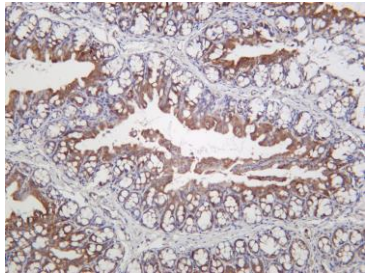
Validation Data



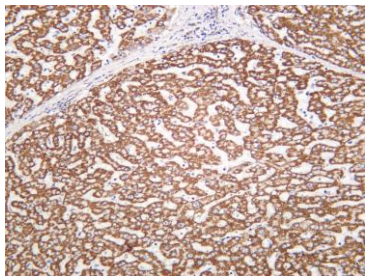
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-UQCRC2 (ANT0070R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A172 Lane 2: C6 Lane 3: HepG2 Lane 4: Mouse heart
Predicted band size: 48kDa Observed band size: 48kDa



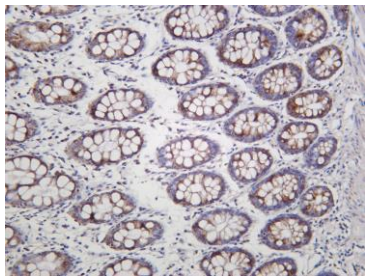
Rat colon was stained with Anti-UQCRC2 (ANT0070R) rabbit antibody



Mouse colon was stained with Anti-UQCRC2 (ANT0070R) rabbit antibody



Human liver was stained with Anti-UQCRC2 (ANT0070R) rabbit antibody



Human colon was stained with Anti-UQCRC2 (ANT0070R) rabbit antibody

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