

UCRC Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55447

Specification

UCRC Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession Q9UDW1

Reactivity Rat, Pig, Dog, Bovine Host Rabbit

Clonality Polyclonal Calculated MW 7 KDa Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human UCRC

Epitope Specificity 2-63/63 Isotype IaG

Isotype
Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Mitochondrial; Mitochondrion inner

membrane

SIMILARITY
SUBUNIT

Belongs to the UQCR10/QCR9 family.
The bc1 complex contains 11 subunits: 3

respiratory subunits (cytochrome b, cytochrome c1 and Rieske/UQCRFS1), 2 core proteins (UQCRC1/QCR1 and

tore proteins (oqckc1/qck1 and

UQCRC2/QCR2) and 6 low-molecular weight

proteins (UQCRH/QCR6, UQCRB/QCR7,

UQCRQ/QCR8, UQCR10/QCR9,

UQCR11/QCR10 and a cleavage product of

Rieske/UQCRFS1).

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

UCRC is a subunit of mitochondrial complex III (ubiquinol-cytochrome c reductase; EC 1.10.2.2), which forms the middle segment of the respiratory chain of the inner mitochondrial membrane (Schagger et al., 1995 [PubMed 8592474]).[supplied by OMIM, Mar 2008]

UCRC Polyclonal Antibody - Additional Information

Gene ID 29796

Other Names

Cytochrome b-c1 complex subunit 9, Complex III subunit 9, Complex III subunit X, Cytochrome c1 non-heme 7 kDa protein, Ubiquinol-cytochrome c reductase complex 7.2 kDa protein, UQCR10,



UCRC

Dilution

IHC-P~~N/A<br \> <span class
="dilution_IHC-F">IHC-F~~N/A<br \> <span class
="dilution_IF">IF~~1:50~200<br \> ICC~~N/A<br \> ICC~~N/A<br \> ICC~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

UCRC Polyclonal Antibody - Protein Information

Name UQCR10

Synonyms UCRC

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.

Cellular Location

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P22289}; Single-pass membrane protein {ECO:0000250|UniProtKB:P22289}

UCRC Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

UCRC Polyclonal Antibody - Images