

UQCRQ Antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI15469

Specification

UQCRQ Antibody - middle region - Product Information

Application **Primary Accession** Other Accession Reactivity

Predicted

Host Clonality Calculated MW

WB 014949 NM 014402, NP 055217 Human, Mouse, Rat, Rabbit, Pig, Bovine, Guinea Pig, Dog Human, Mouse, Rat, Rabbit, Pig, Bovine, Guinea Pig, Dog Rabbit Polyclonal 10kDa KDa

UQCRQ Antibody - middle region - Additional Information

Gene ID 27089

QCR8, QP-C, QPC, UQCR7

Alias Symbol **Other Names** Cytochrome b-c1 complex subunit 8, Complex III subunit 8, Complex III subunit VIII, Ubiquinol-cytochrome c reductase complex 9.5 kDa protein, Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C, UQCRQ

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-UQCRQ antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

UOCRO Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

UQCRQ Antibody - middle region - Protein Information

Name UQCRQ

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

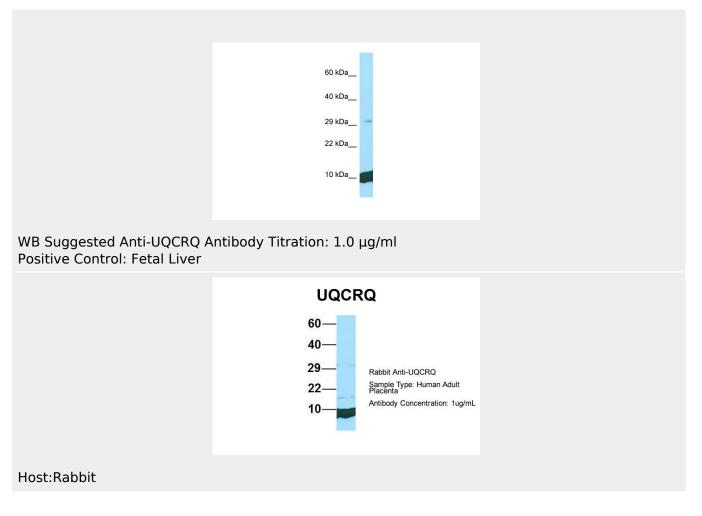
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P08525}; Single-pass membrane protein {ECO:0000250|UniProtKB:P08525}

UQCRQ Antibody - middle region - Protocols

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

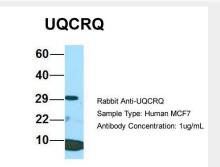
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

UQCRQ Antibody - middle region - Images

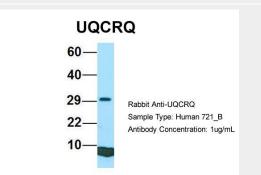




Target Name:UQCRQ Sample Tissue:Human Adult Placenta Antibody Dilution: 1.0µg/ml



Host:Rabbit Target Name:UQCRQ Sample Tissue:Human MCF7 Antibody Dilution: 1.0µg/mlUQCRQ is supported by BioGPS gene expression data to be expressed in MCF7

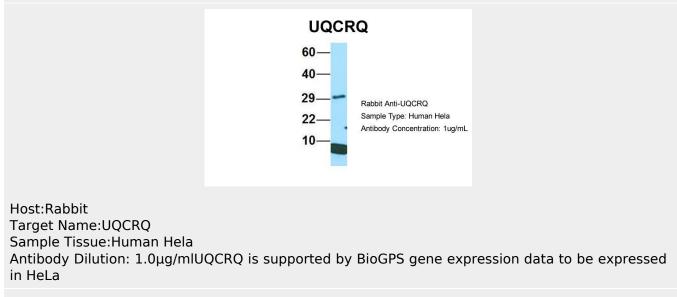


Host:Rabbit

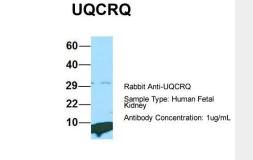
Target Name:UQCRQ

Sample Tissue:Human 721_B

Antibody Dilution: 1.0μ g/mlUQCRQ is supported by BioGPS gene expression data to be expressed in 721_B







Host:Rabbit Target Name:UQCRQ Sample Tissue:Human Fetal Kidney Antibody Dilution: 1.0ug/ml UQCRQ Antibody - middle region - References

Fujiwara T., et al. Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases. Schaegger H., et al. Methods Enzymol. 260:82-96(1995). Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011). Barel O., et al. Am. J. Hum. Genet. 82:1211-1216(2008).