

**UQCRQ Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5464**

**Specification**

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**UQCRQ Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O14949</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=10;M=10;R=10 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**UQCRQ Antibody (N-term) - Additional Information**

**Gene ID** 27089

**Antigen Region**  
13-41

**Other Names**

Cytochrome b-c1 complex subunit 8, Complex III subunit 8, Complex III subunit VIII, Ubiquinol-cytochrome c reductase complex 95 kDa protein, Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C, UQCRQ

**Dilution**

WB~~1:1000

**Target/Specificity**

This UQCRQ antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 13-41 amino acids from the N-terminal region of human UQCRQ.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

UQCRQ Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**UQCRQ Antibody (N-term) - 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.

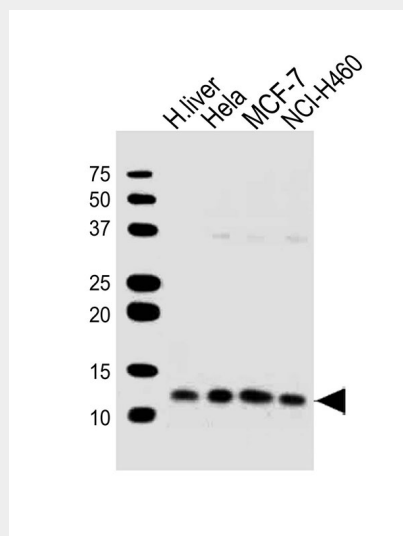
**Cellular Location**

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

**UQCRQ Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**UQCRQ Antibody (N-term) - Images**

All lanes : Anti-UQCRQ Antibody (N-term) at 1:1000 dilution Lane 1: human liver lysates Lane 2: HeLa whole cell lysates Lane 3: MCF-7 whole cell lysates Lane 4: NCI-H460 whole cell lysates

Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 10 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

#### **UQCQRQ Antibody (N-term) - Background**

This is a component of the ubiquinol-cytochrome c reductase complex (complex III or cytochrome b-c1 complex), which is part of the mitochondrial respiratory chain. This subunit, together with cytochrome b, binds to ubiquinone.

#### **UQCQRQ Antibody (N-term) - References**

Fujiwara T., et al. Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.  
Schaeffer 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).