

**QCR8 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10227b****Specification**

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**QCR8 Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [O14949](#)  
Other Accession [NP\\_055217.2](#)

**QCR8 Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 27089

**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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**QCR8 Antibody (C-term) Blocking peptide - 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}

### **QCR8 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **QCR8 Antibody (C-term) Blocking peptide - Images**

### **QCR8 Antibody (C-term) Blocking peptide - Background**

This gene encodes a ubiquinone-binding protein of lowmolecular mass. This protein is a small core-associated protein anda subunit of ubiquinol-cytochrome c reductase complex III, which ispart of the mitochondrial respiratory chain.

### **QCR8 Antibody (C-term) Blocking peptide - References**

Barel, O., et al. Am. J. Hum. Genet. 82(5):1211-1216(2008)Wen, J.J., et al. Free Radic. Biol. Med. 37(12):2072-2081(2004)Schagger, H., et al. Meth. Enzymol. 260, 82-96 (1995) :Usui, S., et al. Biochemistry 29(19):4618-4626(1990)