

UQCRB Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12961c**Specification**

UQCRB Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P14927](#)**UQCRB Antibody (Center) Blocking peptide - Additional Information****Gene ID** 7381**Other Names**

Cytochrome b-c1 complex subunit 7, Complex III subunit 7, Complex III subunit VII, QP-C, Ubiquinol-cytochrome c reductase complex 14 kDa protein, UQCRB, UQBP

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.

UQCRB Antibody (Center) Blocking peptide - Protein Information**Name** UQCRB**Synonyms** UQBP**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:P00128}; Peripheral membrane protein

{ECO:0000250|UniProtKB:P00128}; Matrix side {ECO:0000250|UniProtKB:P00128}

UQCRB Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

UQCRB Antibody (Center) Blocking peptide - Images

UQCRB Antibody (Center) Blocking peptide - Background

This gene encodes a protein which is part of the ubiquinol-cytochrome c oxidoreductase complex which contains tennuclear-encoded and one mitochondrial-encoded subunits. The encoded protein binds ubiquinone and participates in the transfer of electrons when ubiquinone is bound. Mutations in this gene are associated with mitochondrial complex III deficiency. A pseudogene has been described on the X chromosome.

UQCRB Antibody (Center) Blocking peptide - References

Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008) Haut, S., et al. Hum. Genet. 113(2):118-122(2003) Malaney, S., et al. Cytogenet. Cell Genet. 73(4):297-299(1996) Suzuki, H., et al. J. Biol. Chem. 265(14):8159-8163(1990) Hosokawa, Y., et al. Biochem. Int. 21(1):41-44(1990)