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UQCRQ Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI15469

Product Information

Application	WB
Primary Accession	O14949
Other Accession	NM_014402, NP_055217
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	9906

Additional Information

Gene ID	27089
Alias Symbol	QCR8, QP-C, QPC, UQCR7
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	UQCRQ Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

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.

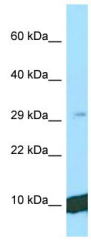
Cellular Location

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

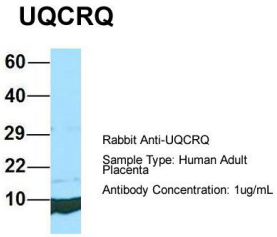
References

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).

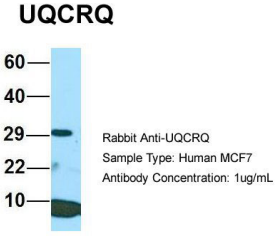
Images



WB Suggested Anti-UQCRQ Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Liver

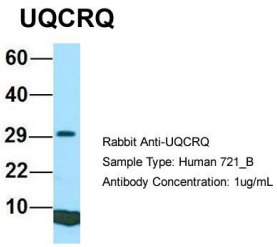


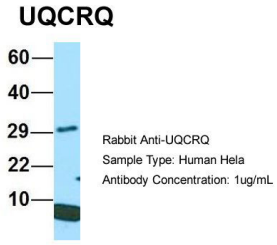
Host:Rabbit
Target Name:UQCRQ
Sample Tissue:Human Adult Placenta
Antibody Dilution: 1.0µg/ml



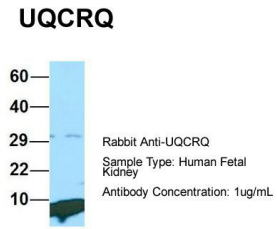
Host:Rabbit
Target Name:UQCRQ
Sample Tissue:Human MCF7
Antibody Dilution: 1.0µg/mlUQCRQ is supported by BioGPS gene expression data to be expressed in MCF7

Host:Rabbit
Target Name:UQCRQ
Sample Tissue:Human 721_B
Antibody Dilution: 1.0µg/mlUQCRQ is supported by BioGPS gene expression data to be expressed in 721_B





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



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