Cytochrome B C1 Complex Subunit 7 (UQCRB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytochrome b c1 complex subunit 7 (UQCRB), ELISA Kit
Full Product Name	Human Cytochrome b c1 complex subunit 7 (UQCRB) ELISA Kit
Product Gene Name	UQCRB elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	16,267 Da
OMIM	gene 615158
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for UQCRB elisa kit	MBS7210941 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome b c1 complex subunit 7 (UQCRB) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing UQCRB. The ELISA analytical biochemical technique of the MBS7210941 kit is based on UQCRB antibody-UQCRB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect UQCRB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, UQCRB. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of UQCRB elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UQCRB. It may not necessarily be applicable to this product.

NCBI GI #	136717
NCBI GeneID	7381
NCBI Accession #	P14927.2
UniProt Secondary Accession #	Q6FGD1; E5RJU0
UniProt Related Accession #	P14927
NCBI Official Full Name	Cytochrome b-c1 complex subunit 7
NCBI Official Synonym Full Names	ubiquinol-cytochrome c reductase binding protein
NCBI Official Symbol	UQCRB

NCBI Official Synonym Symbols	QPC; QCR7; QP-C; UQBC; UQBP; UQPC; UQCR6; MC3DN3
UniProt Protein Name	Cytochrome b-c1 complex subunit 7
UniProt Synonym Protein Names	Complex III subunit 7; Complex III subunit VII; QP-C; Ubiquinol-cytochrome c reductase complex 14 kDa protein
Protein Family	Cytochrome b-c1 complex
UniProt Gene Name	UQCRB
UniProt Synonym Gene Names	UQBP
UniProt Entry Name	QCR7_HUMAN
NCBI Protein Information	cytochrome b-c1 complex subunit 7; complex III subunit 7; complex III subunit VII; mitochondrial ubiquinone-binding protein; ubiquinol-cytochrome c reductase complex 14 kDa protein; ubiquinol-cytochrome c reductase, complex III subunit VI
NCBI Summary for UQCRB	This gene encodes a subunit of the ubiquinol-cytochrome c oxidoreductase complex, which consists of one mitochondrial-encoded and 10 nuclear-encoded subunits. The protein encoded by this gene binds ubiquinone and participates in the transfer of electrons when ubiquinone is bound. This protein plays an important role in hypoxia-induced angiogenesis through mitochondrial reactive oxygen species-mediated signaling. Mutations in this gene are associated with mitochondrial complex III deficiency. Alternatively spliced transcript variants have been found for this gene. Related pseudogenes have been identified on chromosomes 1, 5 and X. [provided by RefSeq, Dec 2011]
UniProt Comments for UQCRB	UQCRB: 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 component is involved in redox-linked proton pumping. Defects in UQCRB are a cause of mitochondrial complex III deficiency (MT-C3D). A disorder of the mitochondrial respiratory chain resulting in a highly variable phenotype depending on which tissues are affected. Clinical features include mitochondrial encephalopathy, psychomotor retardation, ataxia, severe failure to thrive, liver dysfunction, renal tubulopathy, muscle weakness and exercise intolerance. Belongs to the UQCRB/QCR7 family. Protein type: Energy Metabolism - oxidative phosphorylation; Oxidoreductase; Mitochondrial; EC 1.10.2.2 Chromosomal Location of Human Ortholog: 8q22 Cellular Component: mitochondrial inner membrane; mitochondrial respiratory chain complex III; mitochondrial respiratory chain Biological Process: cellular metabolic process; aerobic respiration; mitochondrial electron transport, ubiquinol to cytochrome c; oxidative phosphorylation Disease: Mitochondrial Complex Iii Deficiency, Nuclear Type 3
Research Articles on UQCRB	**1.** Mitochondrial UQCRB regulates VEGFR2 signaling in endothelial cells.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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