

UQCRFS1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21829c**Specification**

UQCRFS1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P47985
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Antigen Region	71-104

UQCRFS1 Antibody (Center) - Additional Information**Gene ID** 7386**Other Names**

Putative cytochrome b-c1 complex subunit Rieske-like protein 1, Ubiquinol-cytochrome c reductase Rieske iron-sulfur subunit pseudogene 1, UQCRFS1P1, UQCRFSL1

Target/Specificity

This UQCRFS1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 71-104 amino acids from the central region of human UQCRFS1.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

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

UQCRFS1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

UQCRFS1 Antibody (Center) - Protein Information**Name** UQCRFS1 ([HGNC:12587](#))

Function [Cytochrome b-c1 complex subunit Rieske, mitochondrial]: Component of the ubiquinol-cytochrome c oxidoreductase, a multisubunit transmembrane complex that is part of the

mitochondrial electron transport chain which drives oxidative phosphorylation (PubMed:[31883641](#)). 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. The Rieske protein is a catalytic core subunit containing a [2Fe-2S] iron- sulfur cluster. It cycles between 2 conformational states during catalysis to transfer electrons from the quinol bound in the Q(0) site in cytochrome b to cytochrome c1 (By similarity). Incorporation of UQCRFS1 is the penultimate step in complex III assembly (PubMed:[28673544](#)).

Cellular Location

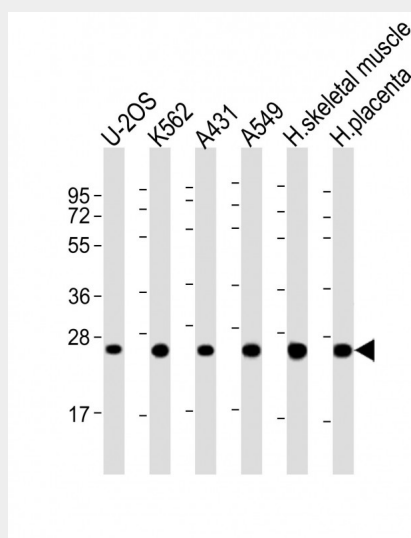
Mitochondrion inner membrane; Single-pass membrane protein
{ECO:0000250|UniProtKB:Q5ZLR5}

UQCRFS1 Antibody (Center) - 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](#)

UQCRFS1 Antibody (Center) - Images



All lanes : Anti-UQCRFS1 Antibody (Center) at 1:2000 dilution
Lane 1: U-2OS whole cell lysate
Lane 2: K562 whole cell lysate
Lane 3: A431 whole cell lysate
Lane 4: A549 whole cell lysate
Lane 5: H.skeletal muscle
Lane 6: H.placenta

5: human skeletal muscle lysate Lane 6: human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

UQCRFS1 Antibody (Center) - References

Dunham I.,et al.Nature 402:489-495(1999).

Li W.B.,et al.Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.