

Rabbit UQCRFS1 Polyclonal Antibody | anti-UQCRFS1 antibody

UQCRFS1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323064	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

UQCRFS1; Polyclonal Antibody; UQCRFS1 Antibody; Complex III subunit 5; Complex III subunit IX; Cytochrome b c1 complex subunit Rieske mitochondrial; Cytochrome b-c1 complex subunit 11; Cytochrome b-c1 complex subunit 5; Cytochrome b6f complex iron sulfur subunit; chloroplastic; petC; PGR1; Plastohydroquinone:plastocyanin oxidoreductase iron sulfur protein; Proton gradient regulation protein 1; Rieske iron sulfur protein; Rieske iron-sulfur protein; RIP1; RIS1; RISP; Ubiquinol cytochrome C reductase rieske iron sulphur; Ubiquinol cytochrome c reductase Rieske iron-sulfur polypeptide 1; Ubiquinol-cytochrome c reductase 8 kDa protein; Ubiquinol-cytochrome c reductase iron-sulfur subunit; UCRI_HUMAN; UQCR5; anti-UQCRFS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	UQCRFS1 antibody detects endogenous levels of UQCRFS1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	274
Applicable Applications for anti-UQCRFS1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human UQCRFS1.
Subcellular Location	Mitochondrion Inner Membrane.
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Dog, Chicken, Xenopus
Similarity	Zebrafish (89%), Bovine (100%), Horse (100%), Dog (100%), Chicken (89%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of MCF-7 cells, using UQCRFS1 antibody.



IHC (Immunohistochemistry)
AAA323064 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-UQCRFS1 antibody	Function: Cytochrome b-c1 complex subunit Rieske, mitochondrial: Component of the mitochondrial ubiquinol-cytochrome c reductase complex dimer (complex III dimer), which is a respiratory chain that generates an electrochemical potential coupled to ATP synthesis (PubMed:28673544). Incorporation of UQCRFS1 is the penultimate step in complex III assembly (By similarity). Subunit Structure: Binds to the mitochondrial respiratory complex III dimer. The monomeric module of the mitochondrial respiratory complex III contains 11 subunits: 3 respiratory subunits involved in its catalytic activity (cytochrome b, cytochrome c1 and Rieske protein UQCRFS1), 2 core proteins (UQCRC1/QCR1 and UQCRC2/QCR2) and 6 low-molecular weight proteins (UQCRH/QCR6, UQCRB/QCR7, UQCRQ/QCR8, UQCR10/QCR9, UQCR11/QCR10 and subunit 9, the cleavage product of Rieske protein UQCRFS1) (By similarity). Incorporation of the Rieske protein UQCRFS1 is the penultimate step in complex III assembly (PubMed:28380382). Interacts with TTC19, which is involved in the clearance of UQCRFS1 fragments (PubMed:28673544). Post-translational Modifications: Proteolytic processing is necessary for the correct insertion of UQCRFS1 in the complex III dimer (PubMed:28673544). Several fragments are generated during UQCRFS1 insertion, most probably due to the endogenous matrix-processing peptidase (MPP) activity (PubMed:28673544). The action of the protease is also necessary for the clearance of the UQCRFS1 fragments (PubMed:28673544).
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	163644321
NCBI GeneID	7386
NCBI Accession #	NP_005994.2
NCBI GenBank Nucleotide #	NM_006003.2
UniProt Accession #	P47985; Q6NVX5; Q9UPH2; A8K519
Molecular Weight	Observed: 25 kDa Predicted: 30 kDa
NCBI Official Full Name	cytochrome b-c1 complex subunit Rieske, mitochondrial
NCBI Official Synonym Full Names	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1
NCBI Official Symbol	UQCRFS1
NCBI Official Synonym Symbols	RIP1; RIS1; RISP; UQCR5
NCBI Protein Information	cytochrome b-c1 complex subunit Rieske, mitochondrial
UniProt Protein Name	Cytochrome b-c1 complex subunit Rieske, mitochondrial
UniProt Gene Name	UQCRFS1
UniProt Synonym Gene Names	Su9By similarityManual assertion inferred from sequence similarity toUniProtKB:P13272Â (UCRI_BOVIN); Subunit 9By similarityManual assertion inferred from sequence similarity toUniProtKB:P13272Â (UCRI_BOVIN)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

