

Datasheet for ABIN7271127
anti-UQCRFS1 antibody

4 Images

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Overview

Quantity:	100 µL
Target:	UQCRFS1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This UQCRFS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	UQCRFS1 Rabbit mAb
Immunogen:	A synthesized peptide derived from human UQCRFS1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	UQCRFS1
Alternative Name:	UQCRFS1 (UQCRFS1 Products)
Background:	[Cytochrome b-c1 complex subunit Rieske, mitochondrial]: Component of the ubiquinol-

Target Details

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. 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 UQCRC1 is the penultimate step in complex III assembly.,RIP1, RIS1, RISP, UQCRC5,Cancer,Cell Biology & Developmental Biology,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial metabolism_Mitochondrial markers,Mitochondrial metabolism_Oxidative phosphorylation,Neurodegenerative Diseases,Neuroscience,Signal Transduction,UQCRC1

Molecular Weight:	23kDa
Gene ID:	7386
UniProt:	P47985
Pathways:	Proton Transport

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

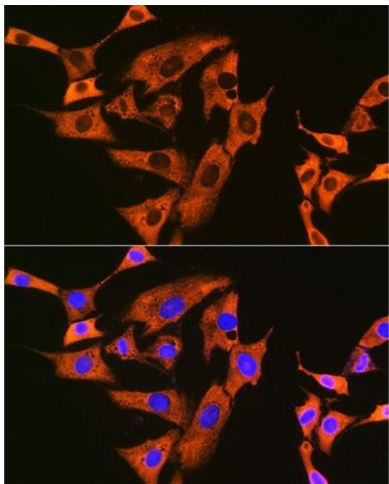
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

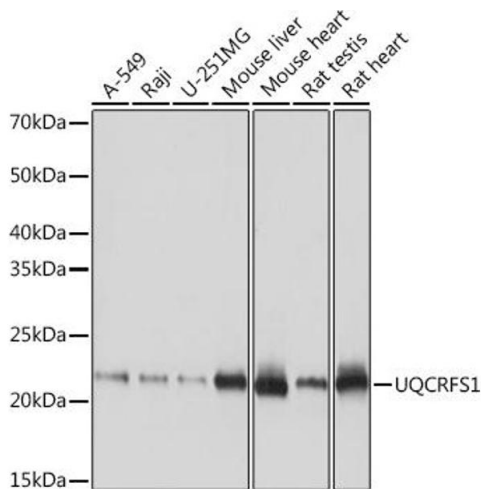
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



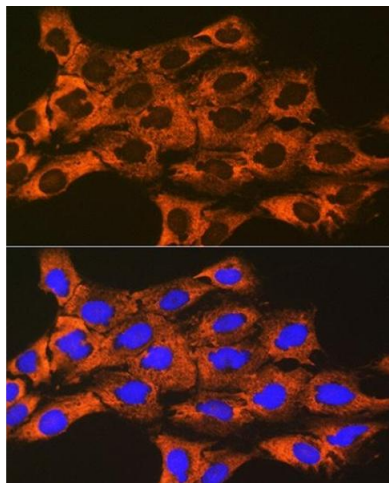
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using UQCRFS1 Rabbit mAb (ABIN7271127) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using UQCRFS1 Rabbit mAb (ABIN7271127) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Immunofluorescence

Image 3. Immunofluorescence analysis of C6 cells using UQCRFS1 Rabbit mAb (ABIN7271127) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7271127.