UQCRC2 (G-16): sc-69065



The Power to Question

BACKGROUND

Cytochrome c is a well characterized, mobile electron transport protein that is essential to energy conversion in all aerobic organisms. Cytochrome b associates with cytochrome c subunit 1 and the Rieske protein to form complex III (also designated cytochrome bc1 complex), which is involved in cellular respiration. Ubiquinol cytochrome c reductase (UQCRFS1), also referred to as Rieske iron-sulfur protein, represents an important subunit of complex III of the mitochondrial respiratory chain that transfers electrons from ubiquinol to cytochrome c. The UQCRFS1 complex is made up of 3 respiratory subunits (cytochrome b, cytochrome c1, Rieske protein), 2 core proteins, and 6 low-molecular weight proteins. Ubiquinol cytochrome-c reductase complex core protein 2 (UQCRC2) represents one of the core proteins of UQCRFS1, and it is required for the assembly of the complex.

REFERENCES

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- 3. Hu, W.H., et al. 2002. Identification and characterization of a novel Nogointeracting mitochondrial protein (NIMP). J. Neurochem. 81: 36-45.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 191327. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Wen, J.J., et al. 2004. Oxidative modification of mitochondrial respiratory complexes in response to the stress of *Trypanosoma cruzi* infection. Free Radic. Biol. Med. 37: 2072-2081.
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CHROMOSOMAL LOCATION

Genetic locus: UQCRC2 (human) mapping to 16p12.2; Uqcrc2 (mouse) mapping to 7 F2.

SOURCE

UOCRC2 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of UOCRC2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69065 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

UOCRC2 (G-16) is recommended for detection of UOCRC2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

UQCRC2 (G-16) is also recommended for detection of UQCRC2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for UQCRC2 siRNA (h): sc-72021, UQCRC2 siRNA (m): sc-72022, UQCRC2 shRNA Plasmid (h): sc-72021-SH, UQCRC2 shRNA Plasmid (m): sc-72022-SH, UQCRC2 shRNA (h) Lentiviral Particles: sc-72021-V and UQCRC2 shRNA (m) Lentiviral Particles: sc-72022-V.

Molecular Weight of UQCRC2: 48 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



UQCRC2 (G-16): sc-69065. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart muscle tissue showing cytoplasmic staining of

RESEARCH USE

For research use only, not for use in diagnostic procedures.



Try **UQCRC2 (G-10):** sc-390378 or **UQCRC2 (G-4):** sc-390161, our highly recommended monoclonal alternatives to UQCRC2 (G-16).