

UQCRC2 (H-135): sc-292924

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 (UQCRC1), 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 UQCRC1 complex is made up of three respiratory subunits (cytochrome b, cytochrome c₁, Rieske protein), two core proteins, and six low-molecular weight proteins. Ubiquinol cytochrome-c reductase complex core protein 2 (UQCRC2) represents one of the core proteins of UQCRC1, and it is required for the assembly of the complex.

CHROMOSOMAL LOCATION

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

SOURCE

UQCRC2 (H-135) is a rabbit polyclonal antibody raised against amino acids 319-453 mapping at the C-terminus of UQCRC2 of human origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

UQCRC2 (H-135) is recommended for detection of UQCRC2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (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 (H-135) 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.

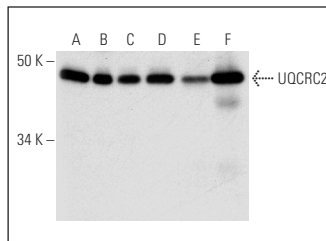
Molecular Weight of UQCRC2: 48 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, Hep G2 cell lysate: sc-2227 or Jurkat whole cell lysate: sc-2204.

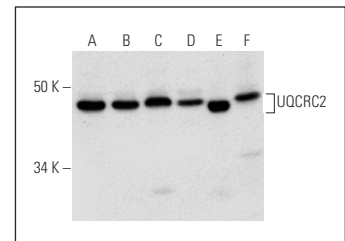
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



UQCRC2 (H-135): sc-292924. Western blot analysis of UQCRC2 expression in Jurkat (A), Ramos (B), A-431 (C) and WiDR (D) whole cell lysates and human colon (E) and human skeletal muscle (F) tissue extracts.



UQCRC2 (H-135): sc-292924. Western blot analysis of UQCRC2 expression in Hep G2 (A), A549 (B), RT-4 (C) and U-251-MG (D) whole cell lysates and mouse liver (E) and human lung (F) tissue extracts.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **UQCRC2 (G-10): sc-390378** or **UQCRC2 (G-4): sc-390161**, our highly recommended monoclonal alternatives to UQCRC2 (H-135).