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QP-C (m): 293T Lysate: sc-125875

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. QP-C, also known as QCR8, QPC, UQCRCQ (ubiquinol-cytochrome c reductase, complex III subunit VII, 9.5kDa) or cytochrome bc1 complex subunit 8, is a 82 amino acid mitochondrion inner membrane protein that belongs to the UQCRCQ/QCR8 family. QP-C is a component of the UQCRC (ubiquinol-cytochrome-c reductase complex core) complex, which is part of the mitochondrial respiratory chain. Mutations in QP-C are due to mitochondrial complex III deficiency and are characterized by severe psychomotor retardation and extrapyramidal signs.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Uqcrcq (mouse) mapping to 11 B1.3.

PRODUCT

QP-C (m): 293T Lysate represents a lysate of mouse QP-C transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

QP-C (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive QP-C antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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