

CABC1 (687): sc-100663

BACKGROUND

CABC1 (chaperone activity of bc1 complex-like), also known as COQ8 or ADCK3 (aarF domain-containing protein kinase 3) is a 647 amino acid mitochondrial protein that belongs to the protein kinase superfamily. Ubiquitously expressed with higher expression in heart and skeletal muscle, CABC1 is thought to function as a chaperone in the proper assembly of protein complexes found in the respiratory chain. CABC1 expression is induced both in response to DNA damage and by the tumor suppressor p53. When CABC1 expression is inhibited, p53-induced apoptosis is partially suppressed, suggesting a possible role for CABC1 in tumor suppression. Mutations in the gene encoding CABC1 may be implicated in ubiquinone deficiency, which can lead to cerebellar ataxia and seizures. Four isoforms of CABC1 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CABC1 (human) mapping to 1q42.13.

SOURCE

CABC1 (687) is a mouse monoclonal antibody raised against recombinant CABC1 of human origin.

PRODUCT

Each vial contains 200 µl ascites containing IgM with < 0.1% sodium azide.

PROTOCOLS

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

APPLICATIONS

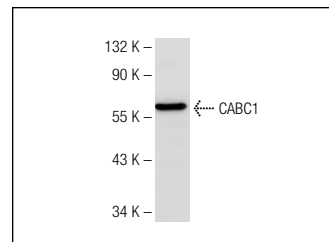
CABC1 (687) is recommended for detection of CABC1 of human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:100-1:5000), immunoprecipitation [1-2 µl per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:100-1:5000).

Suitable for use as control antibody for CABC1 siRNA (h): sc-78990, CABC1 shRNA Plasmid (h): sc-78990-SH and CABC1 shRNA (h) Lentiviral Particles: sc-78990-V.

Molecular Weight of CABC1: 72 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

DATA



CABC1 (687): sc-100663. Western blot analysis of CABC1 expression in HeLa whole cell lysates.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

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