

Datasheet for ABIN654671
anti-COX10 antibody (C-Term)

3 Images

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Overview

Quantity:	400 µL
Target:	COX10
Binding Specificity:	AA 383-410, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COX10 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This COX10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 383-410 amino acids from the C-terminal region of human COX10.
Clone:	RB24307
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	COX10
Alternative Name:	COX10 (COX10 Products)

Target Details

Background: Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes heme A:farnesyltransferase, which is not a structural subunit but required for the expression of functional COX and functions in the maturation of the heme A prosthetic group of COX. This protein is predicted to contain 7-9 transmembrane domains localized in the mitochondrial inner membrane. A gene mutation, which results in the substitution of a lysine for an asparagine (N204K), is identified to be responsible for cytochrome c oxidase deficiency. In addition, this gene is disrupted in patients with CMT1A (Charcot-Marie-Tooth type 1A) duplication and with HNPP (hereditary neuropathy with liability to pressure palsies) deletion.

Molecular Weight: 48910

Gene ID: 1352

NCBI Accession: [NP_001294](#)

UniProt: [Q12887](#)

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

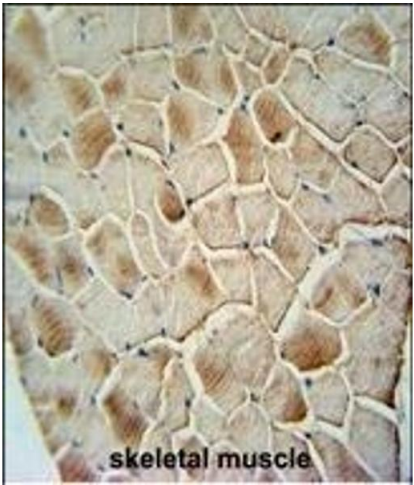
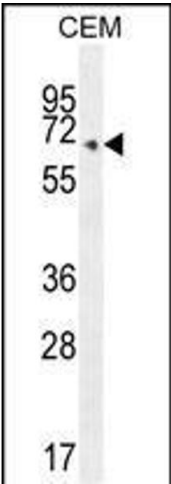
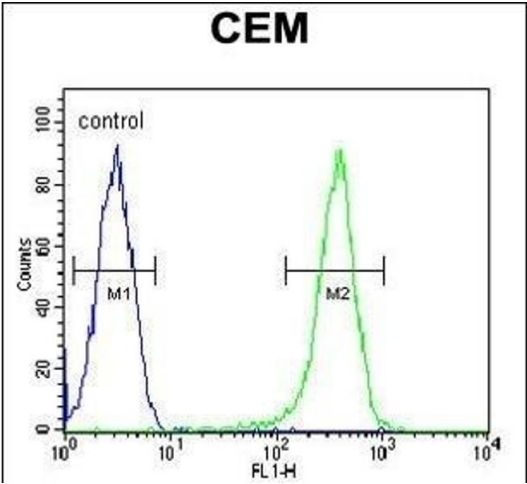
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Validation report #103541 for Western Blotting (WB)



Flow Cytometry

Image 1. COX10 Antibody (C-term) (ABIN654671 and ABIN2844366) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western Blotting

Image 2. COX10 Antibody (C-term) (ABIN654671 and ABIN2844366) western blot analysis in CEM cell line lysates (35 µg/lane). This demonstrates the COX10 antibody detected the COX10 protein (arrow).

Immunohistochemistry (Paraffin-embedded Sections)

Image 3. COX10 antibody (C-term) (ABIN654671 and ABIN2844366) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the COX10 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.