

Rabbit anti-Human COX10 Polyclonal Antibody | anti-COX10 antibody

COX10 Antibody (C-term)

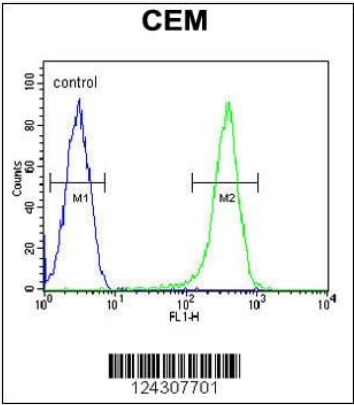
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288248	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

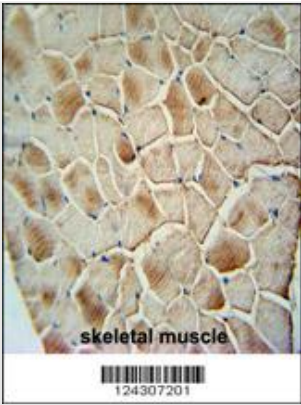
COX10; Polyclonal Antibody; COX10 Antibody (C-term); Protoheme IX farnesyltransferase; mitochondrial; 251-; Heme O synthase; anti-COX10 antibody

PRODUCT SPECIFICATIONS

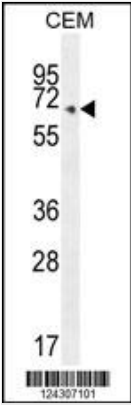
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This COX10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 383-410 amino acids from the C-terminal region of human COX10.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	383-410
Sequence Length	443
Applicable Applications for anti-COX10 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
COX10 Antibody (C-term) 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.



IHC (Immunohistochemistry)
COX10 antibody (C-term) 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.



WB (Western Blot)
COX10 Antibody (C-term) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the COX10 antibody detected the COX10 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-COX10 antibody	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.
Product Categories/Family for anti-COX10 antibody	Metabolism; Signal Transduction

References	Chen, Z., et al. Oncogene 29(30):4362-4368(2010) Vitali, M., et al. J Neural Transm 116(12):1635-1641(2009) Dassa, E.P., et al. EMBO Mol Med 1(1):30-36(2009) Veluthakal, R., et al. Diabetes 56(1):204-210(2007) Coenen, M.J., et al. Ann. Neurol. 56(4):560-564(2004)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	17921982
NCBI GeneID	1352
NCBI Accession #	NP_001294.2
NCBI GenBank Nucleotide #	NM_001303.3
UniProt Accession #	Q12887; O15334; Q969F7; B2R6U5; B4DJ50
Molecular Weight	48910
NCBI Official Full Name	protoheme IX farnesyltransferase, mitochondrial
NCBI Official Synonym Full Names	COX10 heme A:farnesyltransferase cytochrome c oxidase assembly factor
NCBI Official Symbol	COX10
NCBI Protein Information	protoheme IX farnesyltransferase, mitochondrial
UniProt Protein Name	Protoheme IX farnesyltransferase, mitochondrial
UniProt Gene Name	COX10
UniProt Entry Name	COX10_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.