

COX10 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP02147
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human COX10. AA range:98-147
Mol wt	48882
Species reactivity	Human
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	COX10 Antibody
Synonyms	COX10; Protoheme IX farnesyltransferase; mitochondrial; Heme O synthase

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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. COX10 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. COX10, heme A: farnesyltransferase cytochrome c oxidase assembly factor 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.

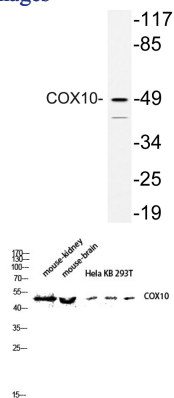
Recommended Dilution

WB: 1: 500 - 1: 2000

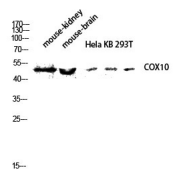
ELISA: 1: 10000

Not yet tested in other applications.

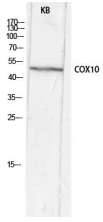
Images



Western blot analysis of lysate from HeLa cells, using COX10 antibody.



Western blot analysis of mouse-kidney mouse-brain HeLa KB 293T lysis using COX10 antibody. Antibody was diluted at 1:1000



Western blot analysis of KB lysis using COX10 antibody. Antibody was diluted at 1:1000

Storage

-20°C for one year

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