

# COX4 Monoclonal Antibody

## Description

Product type	Primary Antibody
Code	BT-MCA0380
Host	Mouse
Isotype	lgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human COX4 expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human,Mouse,Rat,Monkey
Clonality	Monoclonal
Recommended application	WB, IF, ICC, FCM, ELISA
Concentration	1 mg/ml
Full name	Cytochrome c oxidase subunit 4 isoform 1 mitochondrial
Synonyms	COX4I1; COX4; Cytochrome c oxidase subunit 4 isoform 1; mitochondrial; Cytochrome c oxidase polypeptide IV; Cytochrome c oxidase subunit IV isoform 1; COX IV-1

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

### Background

Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. Pseudogenes related to this gene are located on chromosomes

#### **Recommended Dilution**

ELISA: 1:10000 FC: 1:200 - 1:400 IF: 1:200 - 1:1000 WB: 1:500 - 1:2000 Not yet tested in other applications.

#### Images



Western Blot analysis using COX4 Monoclonal antibody against HEK293 (1) A549 (2) and PC12 (3) cell lysate



Immunofluorescence analysis of PANC-1 cells using COX4 Monoclonal antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of K562 cells using COX4 Monoclonal antibody (blue) and negative control (red).

Storage -20°C for one year

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