# COX4I1 monoclonal antibody, clone 6B3

Catalog # MAB10611 Size 100 uL

### Applications



### Western Blot (Cell lysate)

Western blot analysis using COX4I1 monoclonal antibody, clone 6B3 (Cat # MAB10611) against HEK293 (1) , A-549 (2) and PC-12 (3) cell lysate.



#### Immunofluorescence

Immunofluorescence analysis of PANC-1 cells using COX4I1 monoclonal antibody, clone 6B3 (Cat # MAB10611) (green) . Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



#### **Flow Cytometry**

Flow cytometric analysis of K-562 cells using COX4I1 monoclonal antibody, clone 6B3 (Cat # MAB10611) (blue) and negative control (red).

### Specification

**Product Description** 

Mouse monoclonal antibody raised against partial recombinant COX4I1.

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#### **Product Information**

Immunogen	Recombinant protein corresponding to human COX4I1.
Host	Mouse
Theoretical MW (kDa)	19
Reactivity	Human, Monkey, Mouse, Rat
Form	Liquid
lsotype	lgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

Flow cytometric analysis of K-562 cells using COX4I1 monoclonal antibody, clone 6B3 (Cat # MAB10611) (blue) and negative control (red).

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# **Product Information**

Entrez GenelD	<u>1327</u>
Gene Name	COX4I1
Gene Alias	COX4, COXIV, MGC72016
Gene Description	cytochrome c oxidase subunit IV isoform 1
Omim ID	<u>123864</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	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 molecul ar oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial me mbrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochon drially-encoded subunits perform the electron transfer and proton pumping activities. The function s of the nuclear-encoded subunits are unknown but they may play a role in the regulation and asse mbly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human m itochondrial 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. [provided by RefSeq

## Pathway

- Cardiac muscle contraction
- <u>Metabolic pathways</u>
- Oxidative phosphorylation