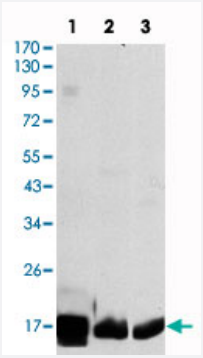
COX4I1 monoclonal antibody, clone 6B3

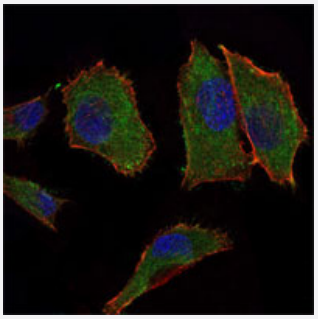
Catalog # MAB10611 Size 100 uL

Applications



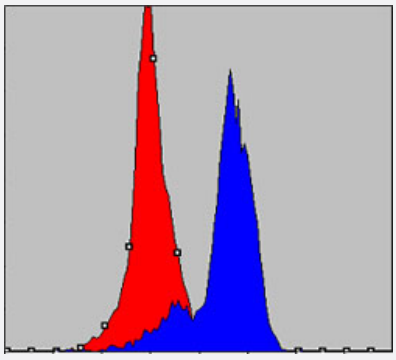
Western Blot (Cell lysate)

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.

Immunogen	Recombinant protein corresponding to human COX4I1.
Host	Mouse
Theoretical MW (kDa)	19
Reactivity	Human, Monkey, Mouse, Rat
Form	Liquid
Isotype	IgG1
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.

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.

- 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).

Gene Info — COX4I1

Entrez GeneID	1327
Gene Name	COX4I1
Gene Alias	COX4, COXIV, MGC72016
Gene Description	cytochrome c oxidase subunit IV isoform 1
Omim ID	123864
Gene Ontology	Hyperlink
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 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. [provided by RefSeq
Other Designations	-

Pathway

- Cardiac muscle contraction
- Metabolic pathways
- Oxidative phosphorylation