

# COX IV Mouse Monoclonal Antibody



CAB10098

## Product Information

### Size:

50uL, 100uL, 200uL

### Observed MW:

17kDa

### Calculated MW:

19kDa

### Applications:

WB IHC ICC IP FC

### Reactivity:

Human, Mouse, Rat,  
Hamster, Monkey, Goat

## Antibody Information

### Recommended dilutions:

WB 1:1000 - 1:4000 IHC  
1:50 - 1:200 ICC 1:50 -  
1:200 IP 1:20 - 1:50 FC 1:20  
- 1:50

### Source:

Mouse

### Isotype:

IgG

### Purification:

Affinity purification

## Protein 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 13 and 14. Alternative splicing results in multiple transcript variants encoding different isoforms.

## Immunogen information

### Gene ID:

1327

### Uniprot

P13073

### Synonyms:

COX4I1; COX IV-1; COX4; COX4-1; COXIV; COXIV-1; COX IV

### Immunogen:

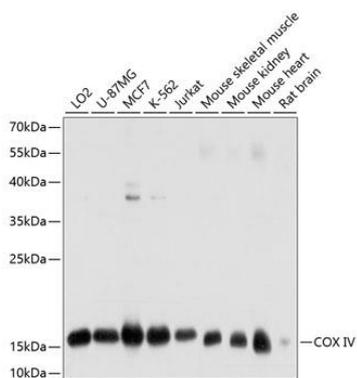
A synthetic peptide of human COX IV

### Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

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Western blot analysis of extracts of various cell lines, using COX IV antibody (CAB10098) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (CABS003) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 30s.