



# COX IV mouse mAb

<b>Catalog No</b>	YP-mAb-02355
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Hamster;Goat;Monkey
<b>Applications</b>	WB;FC;ICC;IP;IHC
<b>Gene Name</b>	cox iv
<b>Protein Name</b>	
<b>Immunogen</b>	A synthetic peptide corresponding to carboxyl terminal residues of human COX IV
<b>Specificity</b>	This antibody detects endogenous levels of COX IV and does not cross-react with related proteins.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	wb 1:1000 icc 1:150 fcm 1:100
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	AL024441;COX 4;COX IV 1;COX IV;COX IV-1;Cox4;COX41_HUMAN;Cox4a;COX4B;COX411;COX4I2;COX4L2;COXIV;Cytochrome c oxidase polypeptide IV;Cytochrome c oxidase subunit 4 isoform 1 mitochondrial;Cytochrome c oxidase subunit 4 isoform 1, mitochondrial;Cytochrome C Oxidase subunit IV;Cytochrome c oxidase subunit IV isoform 1;Cytochrome c oxidase subunit IV isoform 2 (lung);Cytochrome c oxydase subunit;dJ857M17.2;MGC105470;MGC72016.
<b>Observed Band</b>	17kD
<b>Cell Pathway</b>	Mitochondrion inner membrane ; Single-pass membrane protein .
<b>Tissue Specificity</b>	Ubiquitous.
<b>Function</b>	function:This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.,similarity:Belongs to the cytochrome c oxidase IV family.,tissue specificity:Ubiquitous.,
<b>Background</b>	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

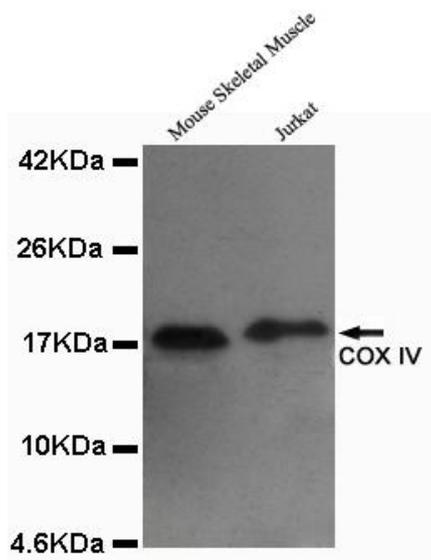
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western blot detection of COX IV in Mouse skeletal muscle and Jurkat lysates using COX IV mouse mAb (1:1000 diluted). Predicted band size: 17KDa. Observed band size: 17KDa.