



COX IV mouse mAb

Catalog No	YP-Ab-02355
Isotype	IgG
Reactivity	Human;Mouse;Rat;Hamster;Goat;Monkey
Applications	WB;FC;ICC;IP;IHC
Gene Name	cox iv
Immunogen	A synthetic peptide corresponding to carboxyl terminal residues of human COX IV
Specificity	This antibody detects endogenous levels of COX IV and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000 icc 1:150 fcm 1:100
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	COX4I1;COX IV-1;COX4;Cytochrome c oxidase subunit 4 isoform 1; mitochondrial;COX IV;AL024441;COX 4;COX IV 1;COX41_HUMAN;Cox4a; COX4B;COX4I2;COX4L2;COXIV;Cytochrome c oxidase polypeptide IV; 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.
Observed Band	17kD
Calculated Molecular Weight	17kD
Cell Pathway	Mitochondrion inner membrane ; Single-pass membrane protein .
Tissue Specificity	Ubiquitous.
Function	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.,

**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

matters needing attention

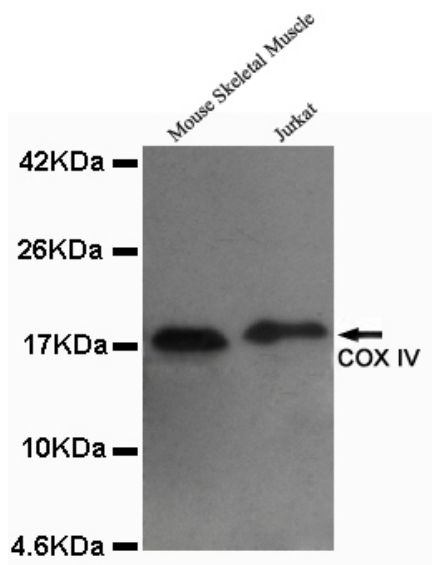
Avoid repeated freezing and thawing!

Usage suggestions

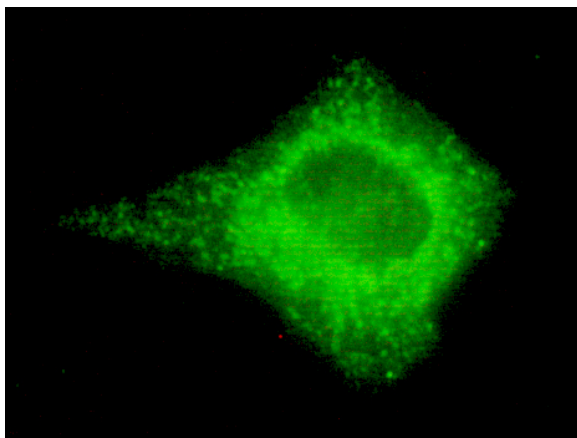
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



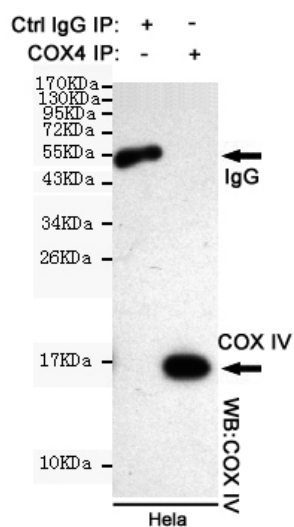
Products Images



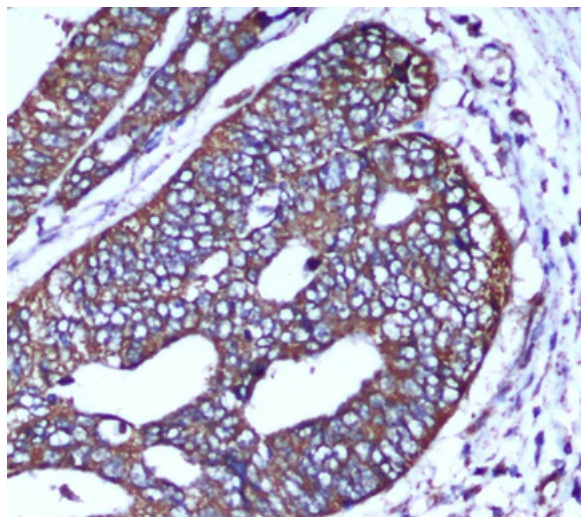
Western blot detection of COX IV in Mouse skeletal muscle and Jurkat lysates using COX IV mouse mAb (1:1000 diluted). Predicted band size: 17KDa. Observed band size: 17KDa.



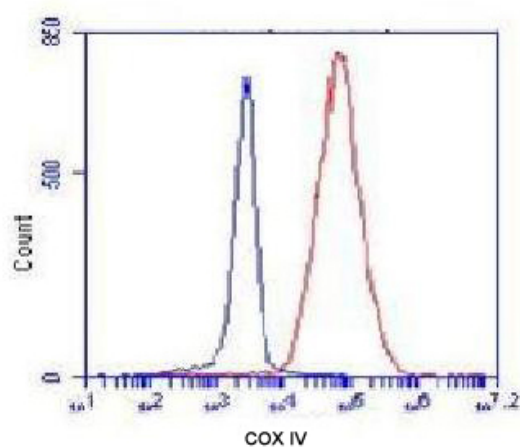
Immunocytochemistry of HeLa cells using anti-COX IV mouse mAb diluted 1:150.



Immunoprecipitation analysis of HeLa cell lysates using COX IV mouse mAb.



Immunohistochemical analysis of paraffin-embedded human colorectal carcinoma with COX IV Mouse mAb (4D11-B3-E8, 1:50 diluted), showing cytoplasmic localization. A high pressure mediated antigen retrieval step was performed in citrate buffer (pH 6.0).



Flow Cytometry analysis of K562 cells stained with COX4 (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.