



Catalog: OM638949

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# COX IV

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☐ 100 µl

## Product profile

Product name	COX IV
Antibody Type	Primary Antibodies
Product description	Cytochrome c oxidase (COX) functions as the terminal oxidase of the respiratory chain that uses cytochrome c as an electron donor to drive a proton gradient across the inner mitochondrial membrane. The mammalian COX apoenzyme is a heteromer consisting of three mitochondrial encoded catalytic subunits and several nuclear gene encoded structural subunits. COX contains two iron-coordination sites and two copper-coordination sites. Cytochrome c oxidase IV (COX4) is a nuclear-encoded subunit of COX that may play a role in regulating COX activity. COX4 is expressed ubiquitously in adult human tissue with the strongest levels of expression in the pancreas and moderate expression levels in heart, skeletal muscle and placenta.
Immunogen	Peptide

## Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL.

## Target Information

Alternative Names	AL024441 antibody COX 4 antibody COX IV 1 antibody COX IV antibody COX IV-1 antibody Cox4 antibody COX41_HUMAN antibody Cox4a antibody COX4B antibody COX4I1 antibody COX4I2 antibody COX4L2 antibody COXIV antibody Cytochrome c oxidase polypeptide IV antibody Cytochrome c oxidase subunit 4 isoform 1 mitochondrial antibody Cytochrome c oxidase subunit 4 isoform 1, mitochondrial antibody Cytochrome C Oxidase subunit IV antibody Cytochrome c oxidase subunit IV isoform 1 antibody Cytochrome c oxidase subunit IV isoform 2 (lung) antibody Cytochrome c oxydase subunit 4 antibody dJ857M
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17.2 antibody MGC105470 antibody MGC72016 antibody

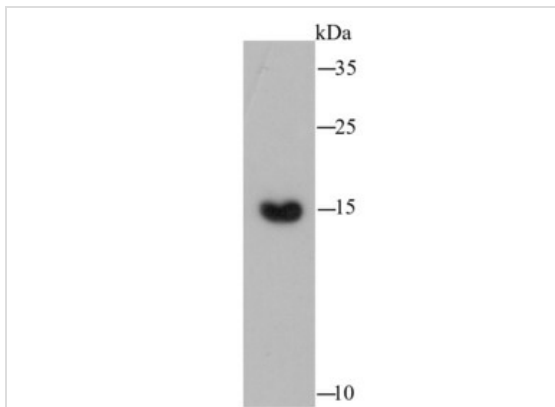
**Molecular Weight(MW)** 16 kDa

**Cellular Localization** Mitochondrion inner membrane.

## Database Links

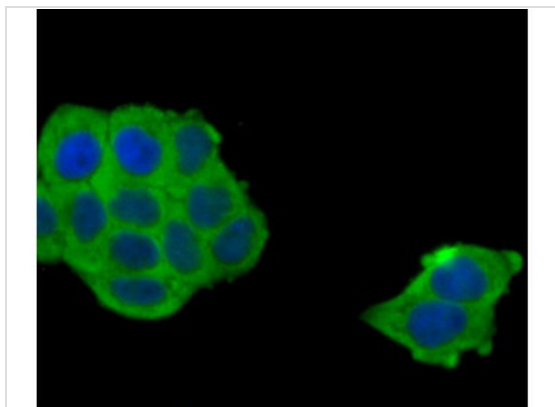
**SwissProt ID** P13073  
P19783  
P10888

## Application



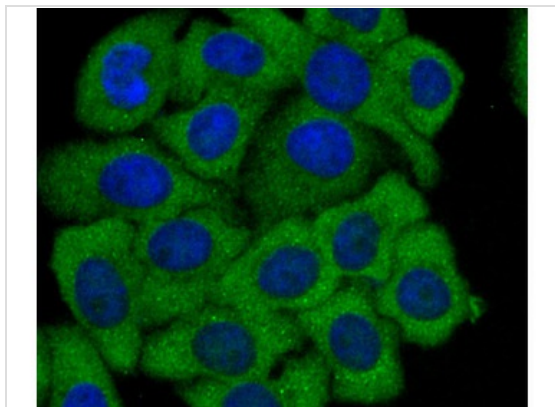
### Application

Fig1: Western blot analysis of COX IV on rat heart tissue lysate using anti-COX IV antibody at 1/2,000 dilution.



### Application

Fig2: ICC staining COX IV in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

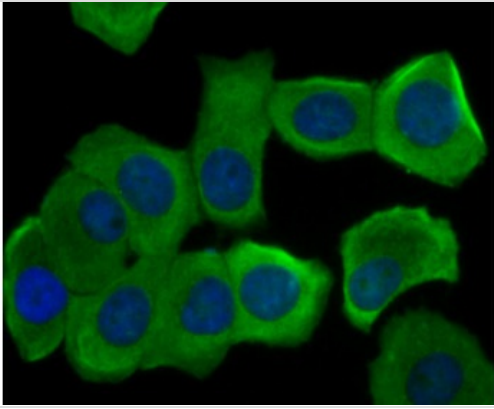


### Application

Fig3: ICC staining COX IV in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

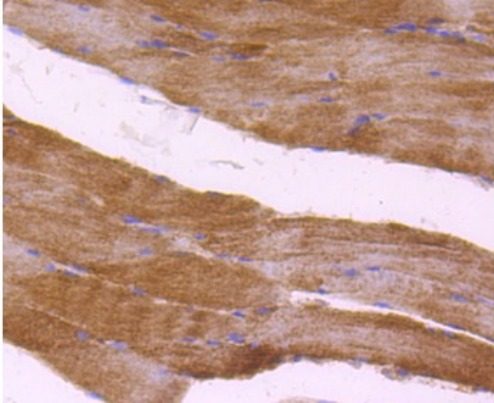
### Application

Fig4: ICC staining COX IV in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



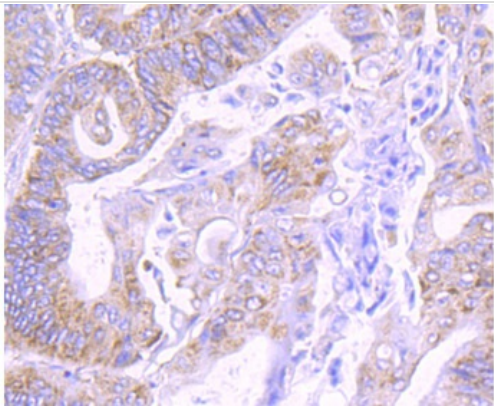
**Application**

Fig5: Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue using anti-COX IV antibody. Counter stained with hematoxylin.



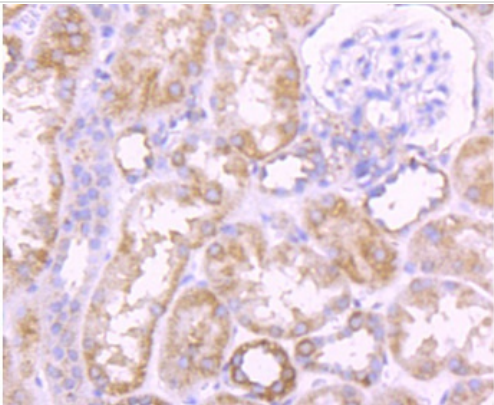
**Application**

Fig6: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-COX IV antibody. Counter stained with hematoxylin.



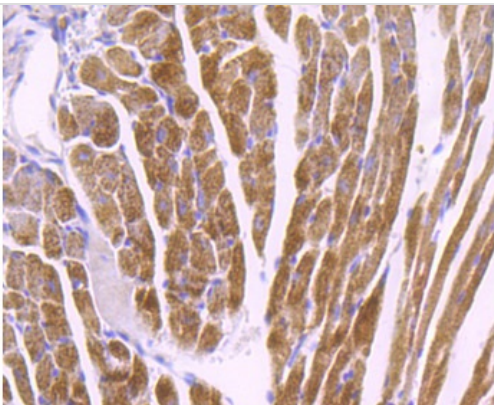
**Application**

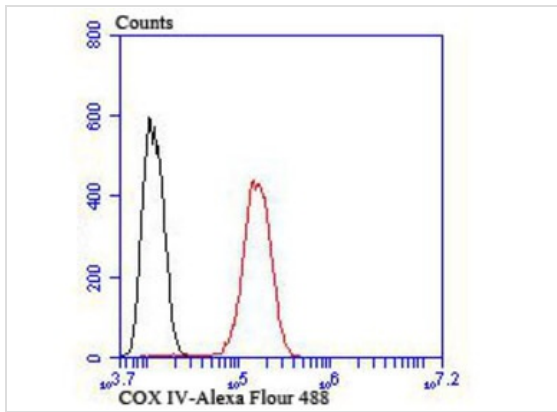
Fig7: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-COX IV antibody. Counter stained with hematoxylin.



**Application**

Fig8: Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-COX IV antibody. Counter stained with hematoxylin.





#### Application

Fig9: Flow cytometric analysis of Hela cells with COX IV antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

<b>Positive Control</b>	Rat heart tissue, Hela, MCF-7, HepG2, human colon cancer tissue, human kidney tissue, mouse heart tissue.
<b>Application Notes</b>	<b>WB:</b> 1:1,000-1:2,000 <b>ICC:</b> 1:100-1:500 <b>IHC:</b> 1:50-1:200 <b>FC:</b> 1:50-1:100

## Additional Information

<b>Form</b>	Liquid
<b>Storage Instructions</b>	Store at +4°C After thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage Buffer</b>	1* TBS (pH7.4), 0.5% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
<b>Note</b>	The product is for research use only, not for use in diagnostic or therapeutic procedures.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt