

COX IV Rabbit mAb

Catalog No: #49275



Package Size: #49275-1 50ul #49275-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

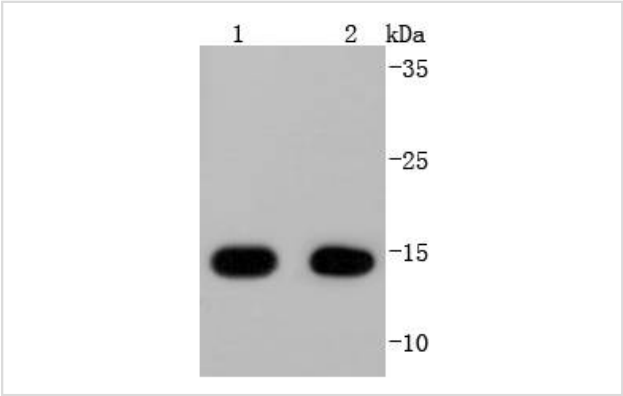
Description

Product Name	COX IV Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ09-05
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other 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 dJ857M17.2 antibody MGC105470 antibody MGC72016 antibody
Accession No.	Swiss-Prot#:P13073
Uniprot	P13073
GeneID	1327;
Calculated MW	16 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

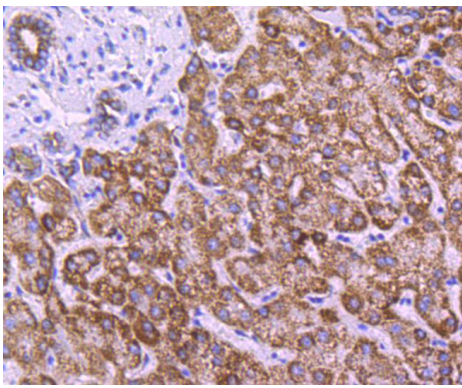
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

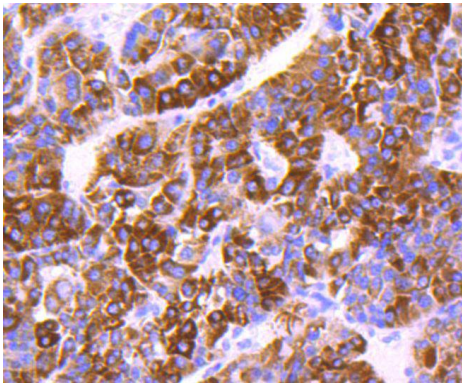
Images



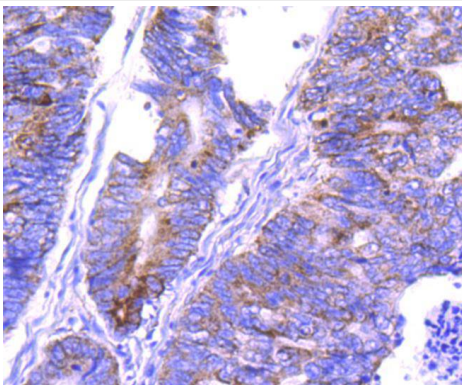
Western blot analysis of COX IV on different lysates using anti-COX IV antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse heart Lane 2: Rat heart



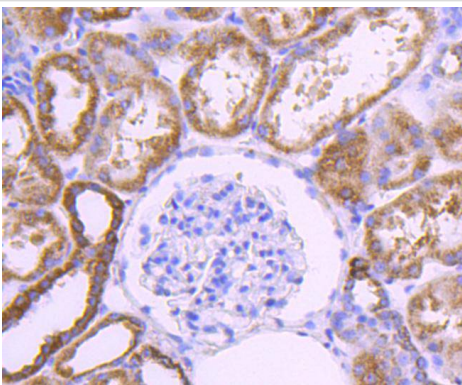
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-COX IV antibody. Counter stained with hematoxylin.



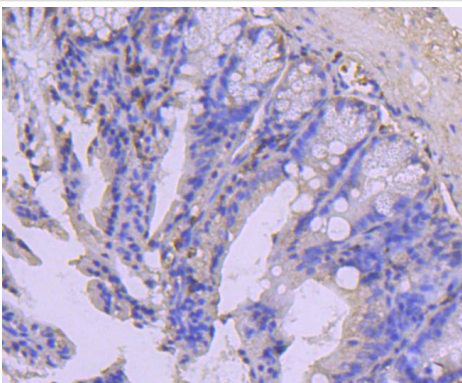
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-COX IV antibody. Counter stained with hematoxylin.



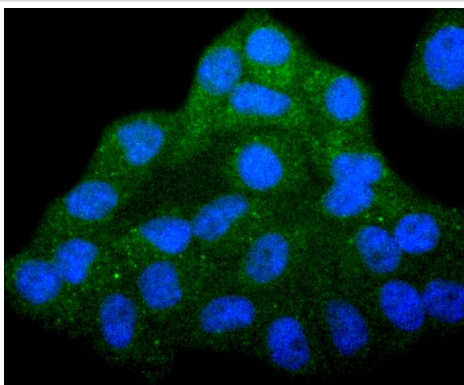
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-COX IV antibody. Counter stained with hematoxylin.



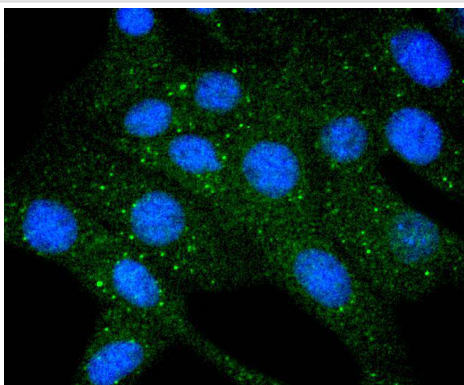
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-COX IV antibody. Counter stained with hematoxylin.



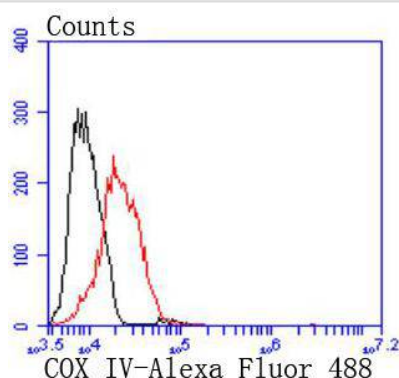
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-COX IV antibody. Counter stained with hematoxylin.



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.



ICC staining COX IV in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of MCF-7 cells with COX IV antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

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.

## References

Note: This product is for in vitro research use only