

COX IV Rabbit mAb

Catalog No: #49275

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

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

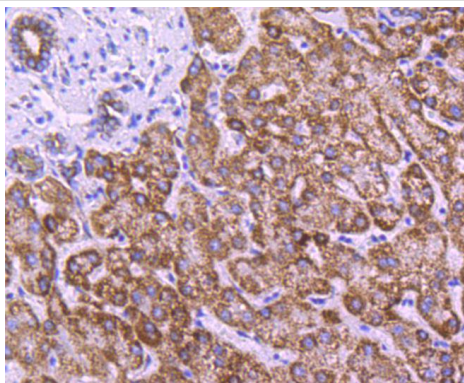
Description

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	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
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
Calculated MW	20 kDa
SDS-PAGE MW	17 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

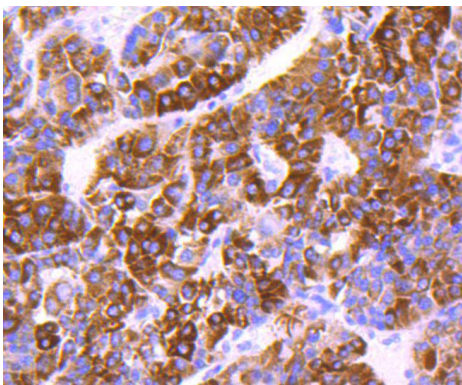
Application Details

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

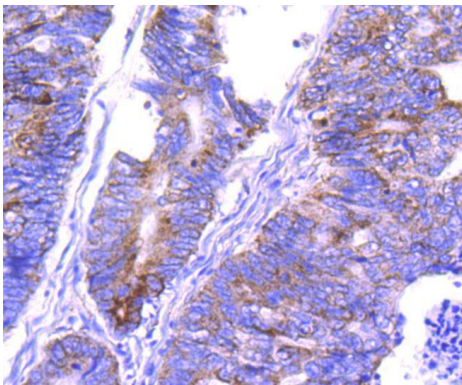
Images



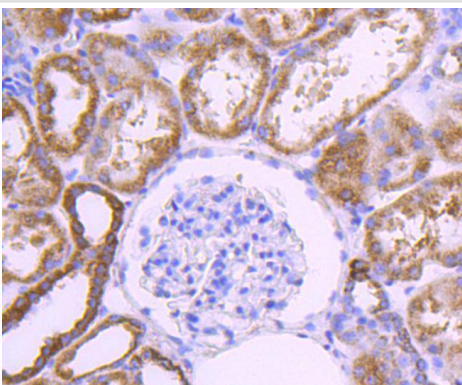
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-COX IV antibody. Counter stained with hematoxylin.



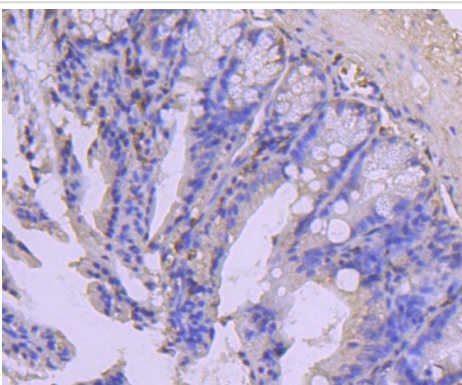
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-COX IV antibody. Counter stained with hematoxylin.



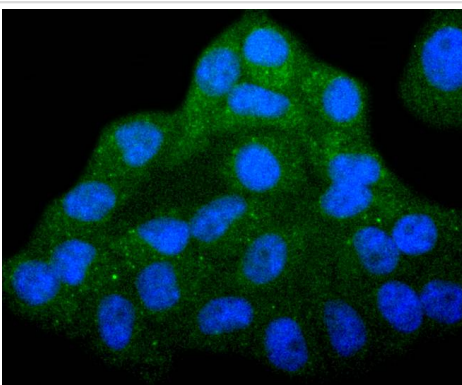
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-COX IV antibody. Counter stained with hematoxylin.



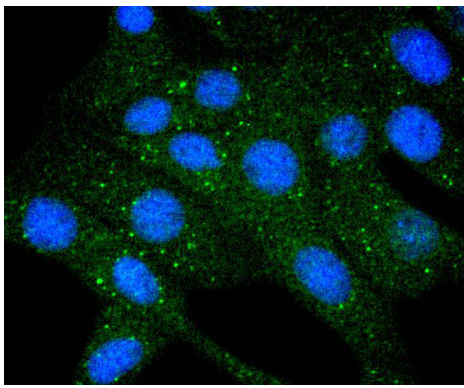
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-COX IV antibody. Counter stained with hematoxylin.



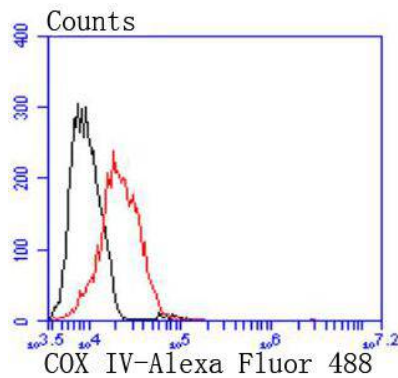
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-COX IV antibody. Counter stained with hematoxylin.



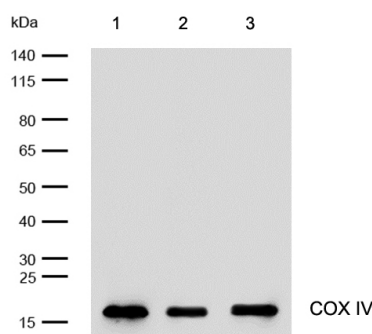
ICC staining COX IV in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



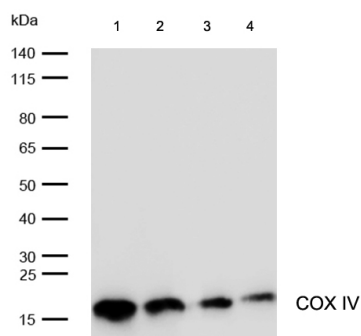
ICC staining COX IV in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



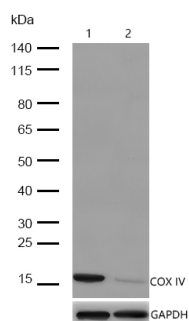
Flow cytometric analysis of MCF-7 cells with COX IV antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



All lanes: COX IV Rabbit mAb at 1/1k dilution
Lane 1 : HeLa whole cell lysates
Lane 2 : 293 whole cell lysates
Lysates/proteins at 20 µg per lane.
Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
Predicted band size: 20 kDa
Observed band size: 17 kDa
Exposure time: 7 seconds



All lanes: COX IV Rabbit mAb at 1/1k dilution
Lane 1 : Mouse kidney lysates
Lane 2 : Mouse brain lysates
Lane 3 : Rat kidney lysates
Lane 4 : Rat brain lysates
Lysates/proteins at 20 µg per lane.
Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
Predicted band size: 20 kDa
Observed band size: 17 kDa
Exposure time: 9 seconds



All lanes: COX IV Rabbit mAb at 1/1k dilution
Lane 1 : Wild-type HT-1080 cell lysate
Lane 2 : COX IV Rabbit mAb knockdown HT-1080 cell lysate
Lysates/proteins at 20 µg per lane.

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

1. Sakakibara I et al. Six1 homeoprotein drives myofiber type IIA specialization in soleus muscle. *Skelet Muscle* 6:30 (2016).
2. Cheng CY et al. Electroacupuncture at different frequencies (5Hz and 25Hz) ameliorates cerebral ischemia-reperfusion injury in rats: possible involvement of p38 MAPK-mediated anti-apoptotic signaling pathways. *BMC Complement Altern Med* 15:241 (2015).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.