

COX IV Rabbit mAb

Catalog No.: A11631

Recombinant

5 Publications

Basic Information

Observed MW

17kDa

Calculated MW

20kDa

Category

Primary antibody

Applications

WB,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC2518

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 13 and 14. Alternative splicing results in multiple transcript variants encoding different isoforms.

Recommended Dilutions

WB	1:1000 - 1:2000
-----------	-----------------

IHC-P	1:200 - 1:2000
--------------	----------------

ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
--------------	---

Immunogen Information

Gene ID

1327

Swiss Prot

P13073

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human COX IV (P13073).

Synonyms

COX4; COXIV; COX4-1; COXIV-1; MC4DN16; COX IV-1; COX IV

Contact

		400-999-6126
--	--	--------------

		cn.market@abclonal.com.cn
--	--	---------------------------

		www.abclonal.com.cn
--	--	---------------------

Product Information

Source

Rabbit

Isotype

IgG

Purification

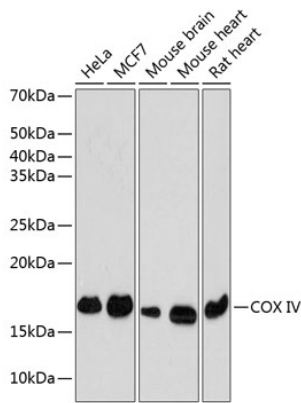
Affinity purification

Storage

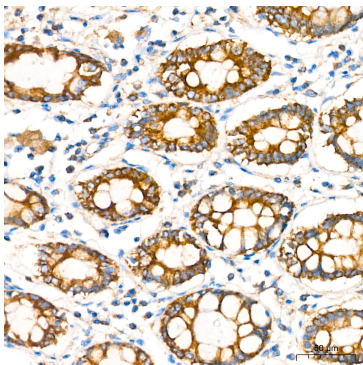
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

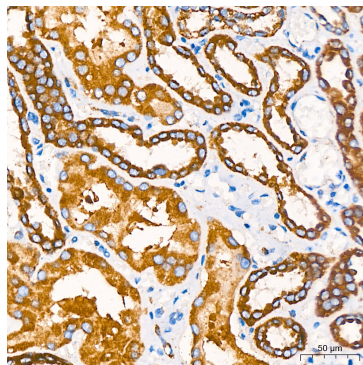
Validation Data



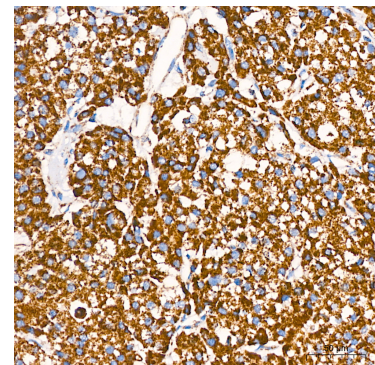
Western blot analysis of various lysates using COX IV Rabbit mAb (A11631) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 3min.



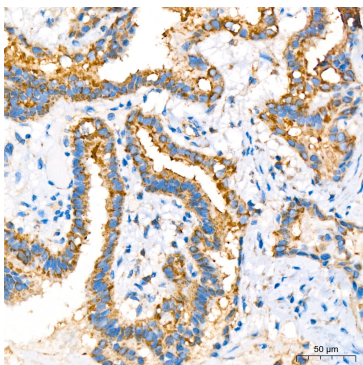
Immunohistochemistry analysis of paraffin-embedded Human colon using COX IV Rabbit mAb (A11631) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



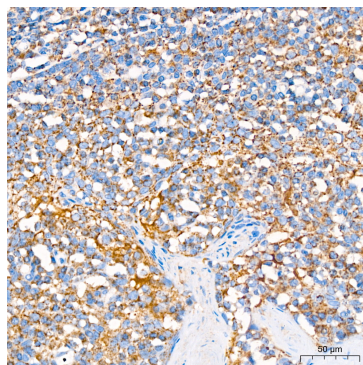
Immunohistochemistry analysis of paraffin-embedded Human kidney using COX IV Rabbit mAb (A11631) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer using COX IV Rabbit mAb (A11631) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer using COX IV Rabbit mAb (A11631) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using COX IV Rabbit mAb (A11631) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.