

#T40110

# COX IV Antibody

- 50 µl
- 100 µl
- 200 µl

## DESCRIPTION

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.

## SOURCE

This Abmart polyclonal antibody is produced by immunizing animals with a polypeptide (Abmart SEAL mAb technology) corresponding to COX IV protein.

## STORAGE

Rabbit IgG in 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## ALIASES

Cytochrome c oxidase subunit 4 isoform 1, Cytochrome c oxidase polypeptide IV, Cytochrome c oxidase subunit IV isoform 1, COX IV-1, COX4I1, COX4

## REACTIVITY

Human, Mouse, Rat, Dog, Pig, Cow, Horse

## ISOTYPE

Rabbit IgG

## PREDICTED MOLECULAR WEIGHT

17 kDa

## RECOMMEND ANTIBODY DILUTIONS

Western blotting	1:500-1:2000
ELISA	1:500-1:1000
IHC-P/IHC-F	1:400-1:800
ICC/IF	1:100-1:500

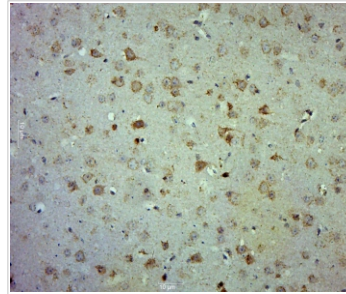
**\*For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.05% Tween-20 at 4°C with gentle shaking overnight.**

Abmart

Orders ■ 400-6123-828  
orders@ab-mart.com

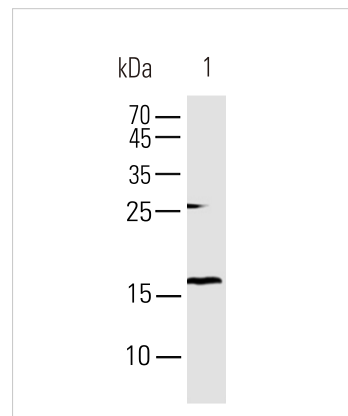
Web ■ www.ab-mart.com.cn

## APPLICATION DATA



Immunohistochemistry-Anti- COX IV pAb (#T40110)

Immunohistochemical analysis of paraffin-embedded mouse brain tissue, using COX IV pAb.



Western blot - Anti-COX IV pAb (#T40110)

**All lanes :** COX IV pAb at 1/300 dilution

**Lane 1 :** Mouse kidney lysate at 40 ug

## Secondary

Goat Anti-Rabbit IgG-HRP, 5% skim milk conjugated at 1/5000 dilution

**Predicted band size :** 17 kDa

**Observed band size :** 17 kDa

Blocking/Dilution buffer : 1× PBS.

**Applications Key:** WB—Western blot, IP—Immunoprecipitation, IHC—Immunohistochemistry, ChIP—Chromatin Immunoprecipitation, IF—Immunofluorescence

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For *in vitro* research use only and not intended for use in humans or animals.