## **COX IV Rabbit Polyclonal Antibody**



## **CAB6564**

**Product Information** 

Size:

20uL, 50uL, 100uL, 200uL

**Observed MW:** 

17kDa

Calculated MW:

19kDa

**Applications:** 

WB IF IP

Human, Mouse, Rat

Reactivity:

**Antibody Information** 

**Recommended dilutions:** WB 1:500 - 1:2000 IF 1:50 -1:200 IP 1:50 - 1:100

Source:

Rabbit

Isotype: IgG

**Purification:** 

Affinity purification

**Protein 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 nuclearencoded 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.

Immunogen information

Gene ID:

1327

Uniprot P13073

Synonyms:

COX4I1; COX IV-1; COX4; COX4-1; COXIV; COXIV-1; COX IV

Immunogen:

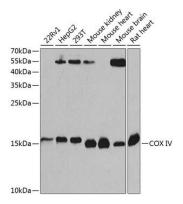
Recombinant fusion protein containing a sequence corresponding to amino acids 23-169 of human COX IV (NP\_001852.1).

Storage:

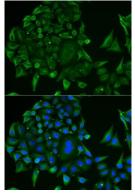
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02%

sodium azide, 50% glycerol, pH7.3.

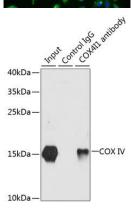
## **Product Images**



Western blot analysis of extracts of various cell lines, using COX IV Antibody (CAB6564) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 15s.



Immunofluorescence analysis of U2OS cells using COX IV antibody (CAB6564). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of 22Rv1 cells, using 3 ug COX IV antibody (CAB6564). Western blot was performed from the immunoprecipitate using COX IV antibody (CAB6564) at a dilition of 1:1000.