

## Cox-4(C-terminus) monoclonal antibody

Catalog: MB0102      Host: Mouse      Reactivity: Hu-  
man, Mouse, Rat, Monkey, Goat, Hamster

### 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.

### Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

Predicted band size: 17KDa

Observed band size: 17KDa

### Swiss-Prot:

P13073

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:1000~5000

ICC: 1:100~200

IP: 1:50~200

FC: 1:50~100

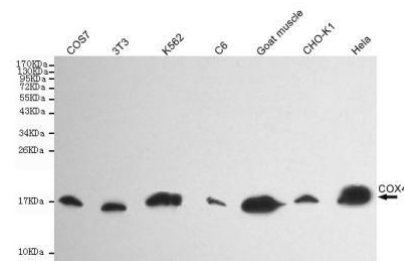
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

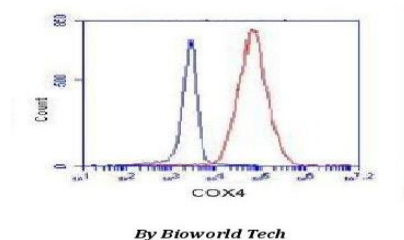
### Specificity:

This antibody detects endogenous levels of COX4 and does not cross-react with related proteins

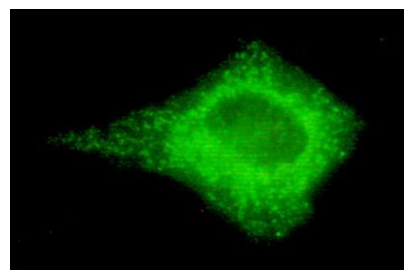
### DATA:



Western blot detection of COX IV antibody in Goat muscle, CHO-k1, COS7, 3T3, HeLa, C6 and K562 cell lysates using COX IV antibody (1:5000 diluted).



Flow Cytometry analysis of K562 cells stained with COX4 (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.



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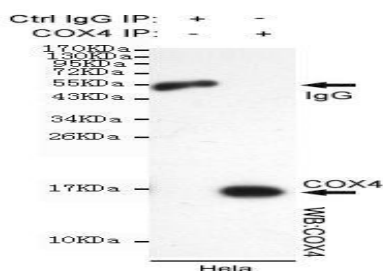
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Immunocytochemistry of HeLa cells using anti- COX4(C-terminus) antibody diluted 1:150.



Immunoprecipitation analysis of HeLa cell lysates using COX IV antibody.

**Note:**

For research use only, not for use in diagnostic procedure.

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