

## Anti-COX4I1 antibody

<b>Cat. No.</b>	ml262690
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-COX4I1 rabbit polyclonal antibody
<b>Applications</b>	ELISA, WB, IHC
<b>Immunogen</b>	Synthetic peptide of human COX4I1
<b>Reactivity</b>	Human, Mouse
<b>Content</b>	1.1 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	COX4I1
<b>Full name</b>	cytochrome c oxidase subunit IV isoform 1

**Synonyms** COX4; COXIV; COX4-1

**Swissprot** P13073

### Target 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.

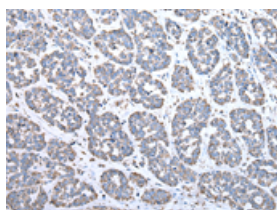
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human esophagus cancer

Recommended dilution: 10-50

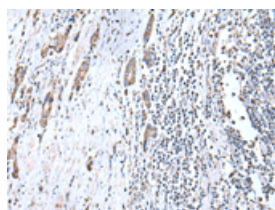


The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ml262690(COX4I1 Antibody) at dilution 1/25, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

Predicted cell location: Cytoplasm

Positive control: Human prostate cancer

Recommended dilution: 10-50



The image on the left is immunohistochemistry of paraffin-embedded Human prostate cancer tissue using ml262690(COX4I1 Antibody) at dilution 1/25, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 20 kDa

Positive control: 293T, HeLa and NIH/3T3 cell lysates

Recommended dilution: 500-2000

Gel: 12%SDS-PAGE

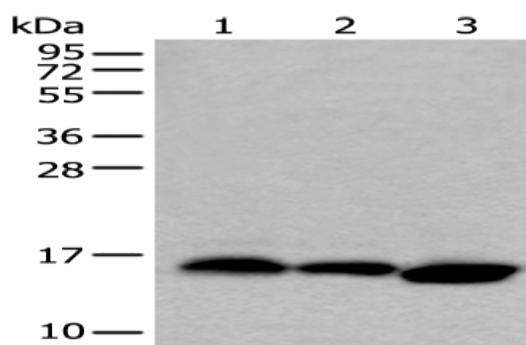
Lysate: 40 µg

Lane 1-3: 293T, Hela and NIH/3T3 cell lysates

Primary antibody: ml262690(COX4I1 Antibody) at dilution 1/350

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 3 seconds



#### ELISA

Recommended dilution: 5000-10000

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