

# COX4I1 Antibody / COX IV-1

Catalog No: tcna10591



## Available Sizes

**Size:** 100ug



## Specifications

**Application:**

WB, IHC-P, ELISA

**Species Reactivity:**

Human, Mouse, Rat

**Host Species:**

Rabbit

**Immunogen / Amino acids:**

A human partial recombinant protein corresponding to amino acids Q59-K169 was used as the immunogen for the COX4I1 antibody.

**Conjugation:**

Antigen affinity purified

**Clonality:**

Polyclonal

**Isotype:**

Rabbit IgG

**Form:**

Lyophilized powder

**Storage Buffer:**

Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide

**Recommended Dilution:**

Western blot: 0.5-1ug/ml

IHC (FFPE): 1-2ug/ml

Direct ELISA: 0.1-0.5ug/ml (recombinant human protein) (BSA-free format available) Optimal dilution of the COX4I1 antibody should be determined by the researcher.

#### Storage Instruction:

After reconstitution, the COX4I1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

#### SwissProt:

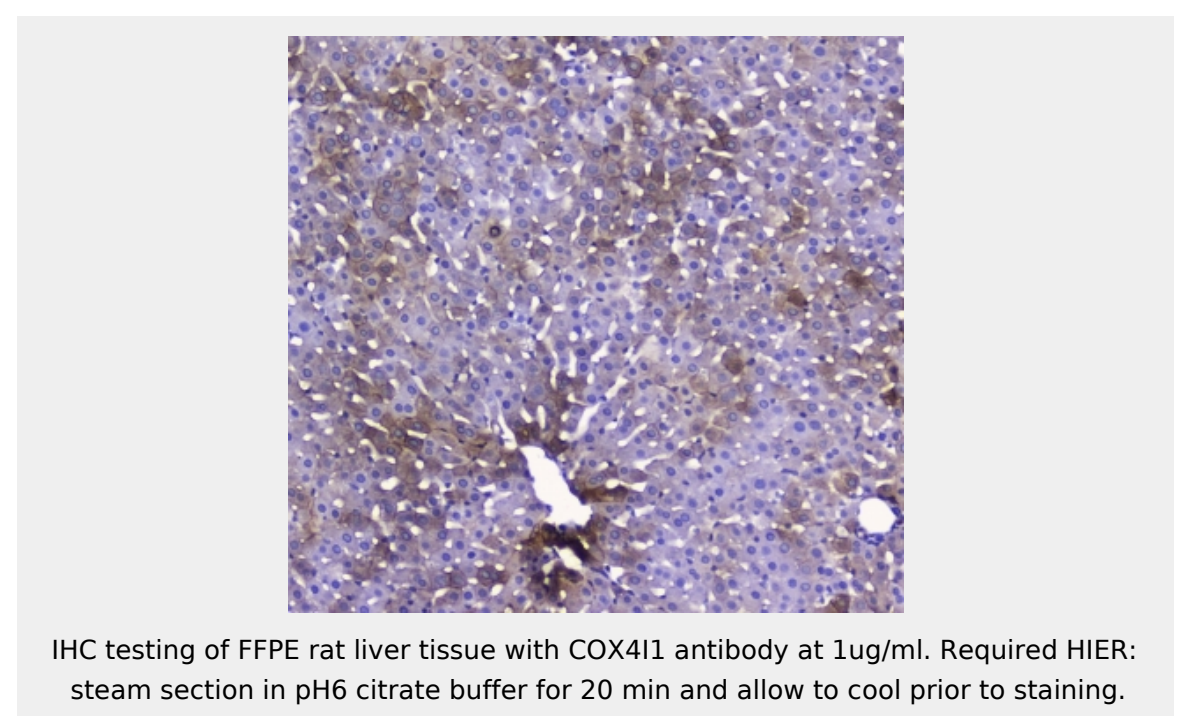
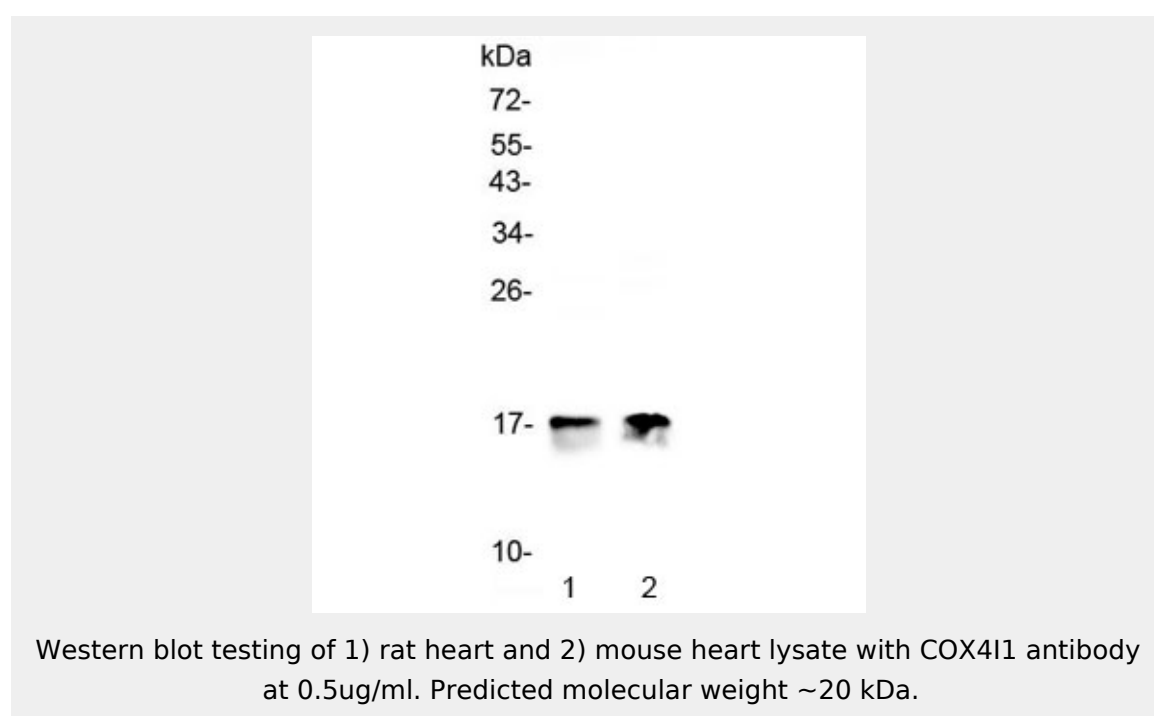
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### References

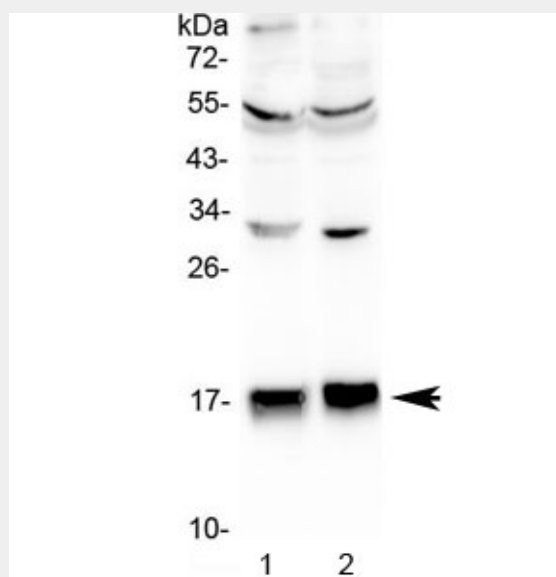
Antigen affinity purified

### Product Description

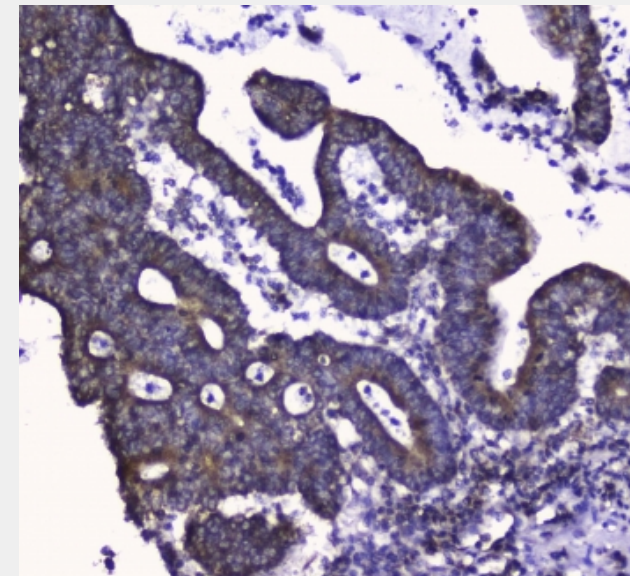
Cytochrome c oxidase subunit 4 isoform 1, mitochondrial is an enzyme that in humans is encoded by the COX4I1 gene. Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to 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.



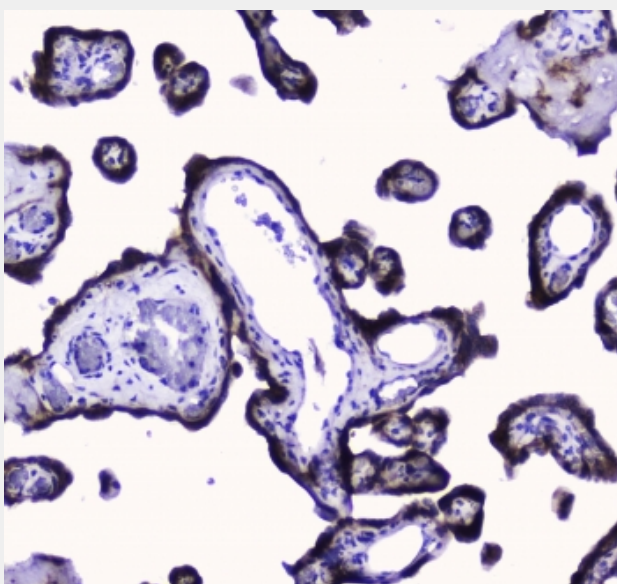




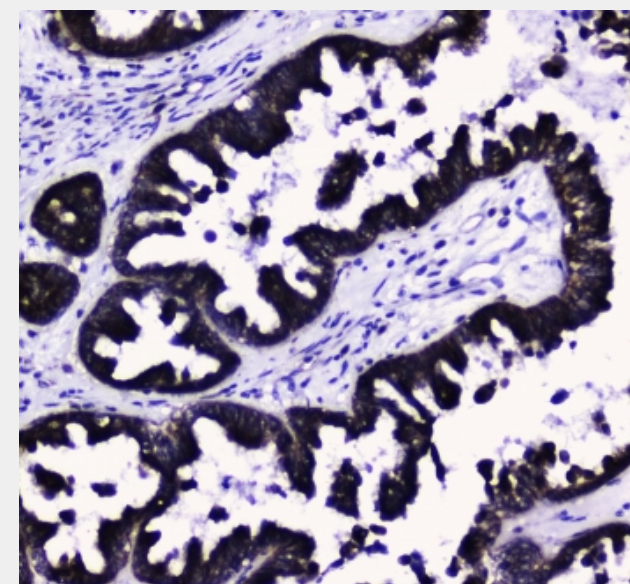
Western blot testing of human 1) HepG2 and 2) SGC-7901 lysate with COX4I1 antibody at 0.5ug/ml. Predicted molecular weight ~20 kDa.



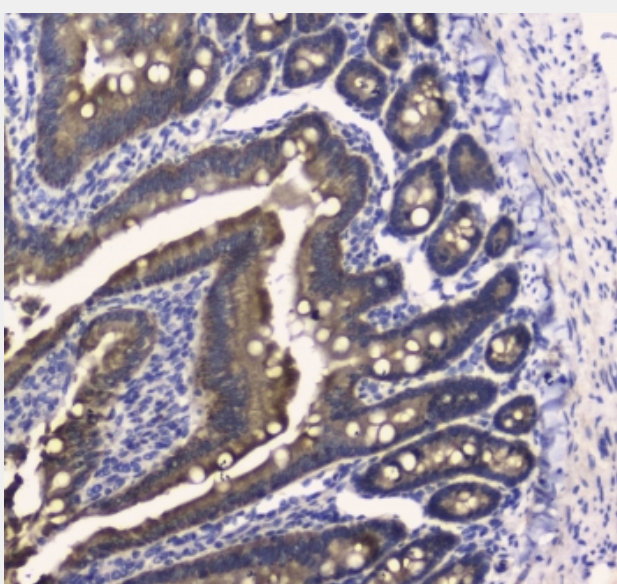
IHC testing of FFPE human intestinal cancer tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



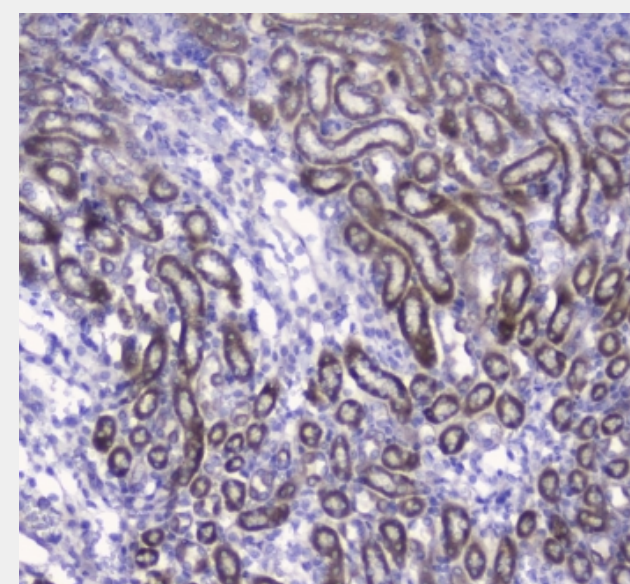
IHC testing of FFPE human placental tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human thyroid cancer tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

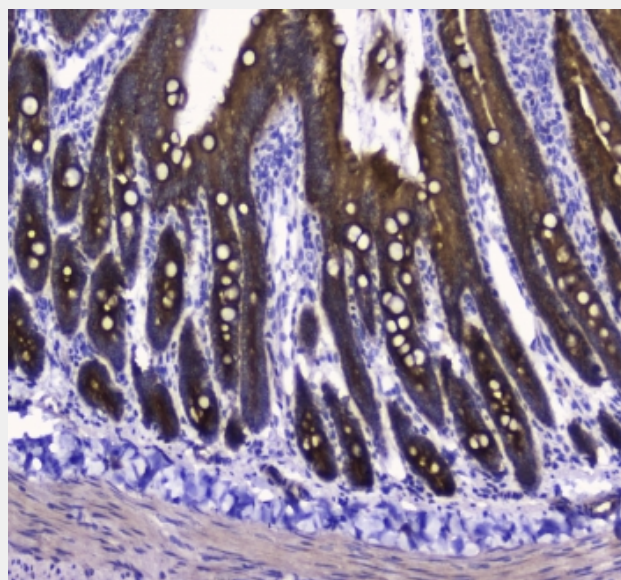


IHC testing of FFPE mouse small intestine tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

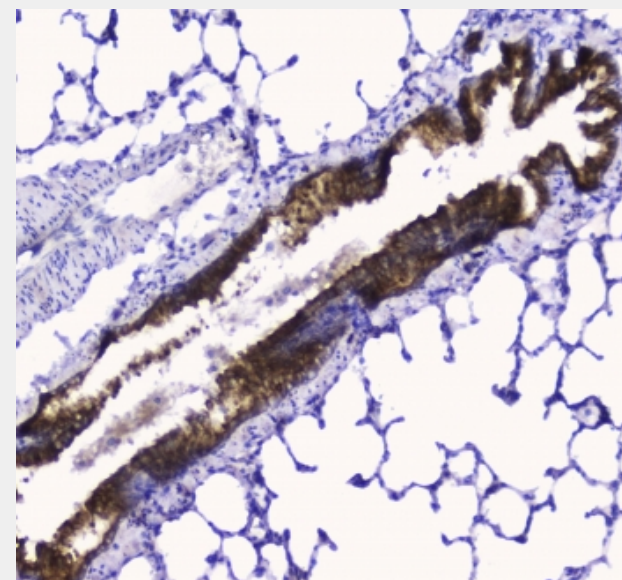


IHC testing of FFPE mouse kidney tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.





IHC testing of FFPE rat small intestine tissue with COX4I1 antibody at 1ug/ml.  
Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE rat lung tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!