

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:

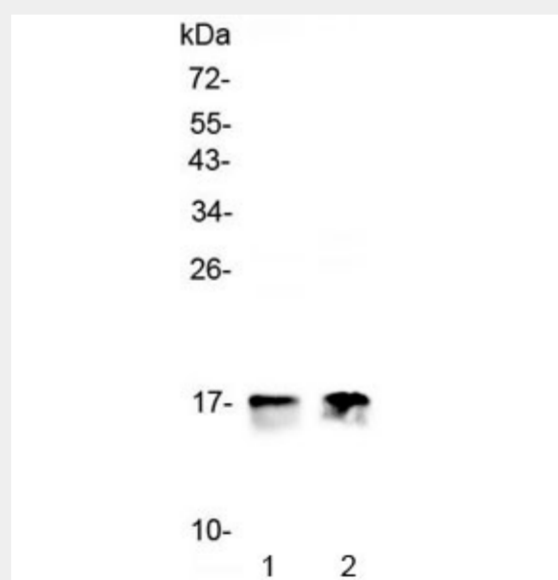
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References

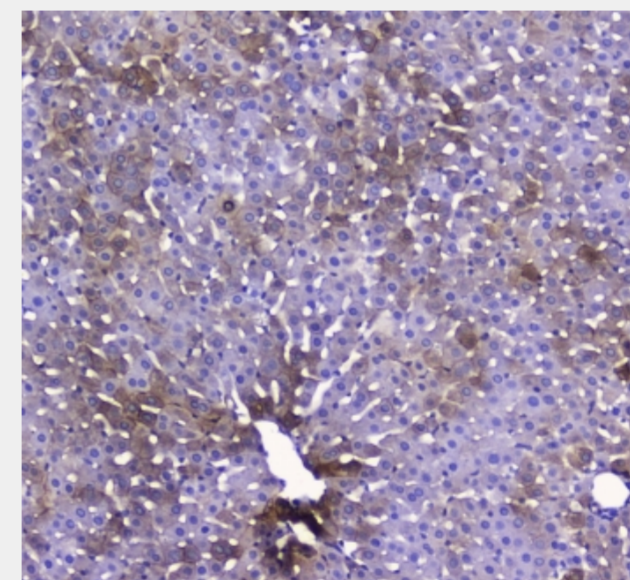
Antigen affinity purified

Product Description

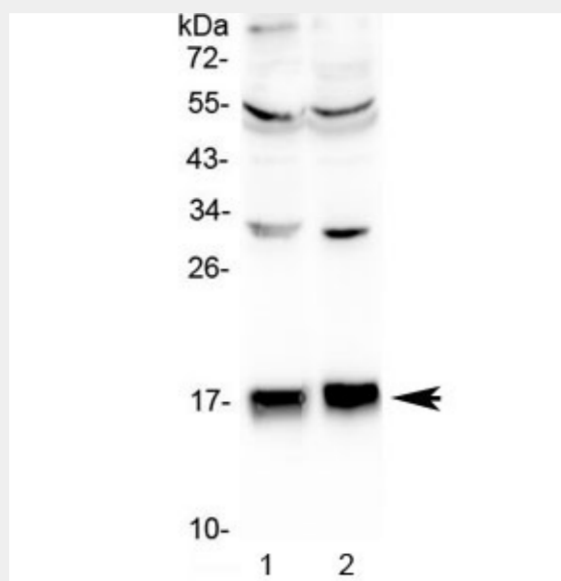
Cytochrome c oxidase subunit 4 isoform 1, mitochondrial is an enzyme that in humans is encoded by the COX4I1 gene. Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to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



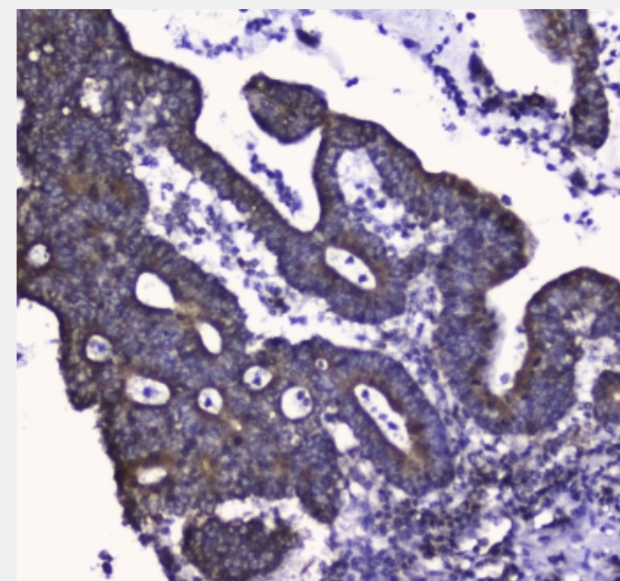
Western blot testing of 1) rat heart and 2) mouse heart lysate with COX4I1 antibody at 0.5ug/ml. Predicted molecular weight ~20 kDa.



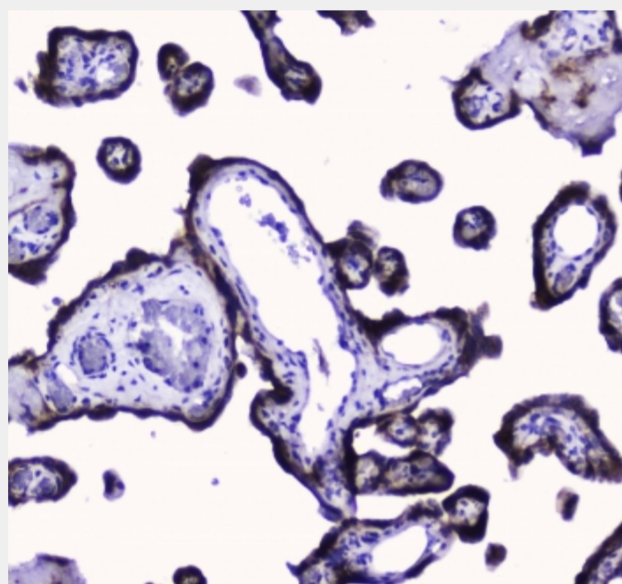
IHC testing of FFPE rat liver tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



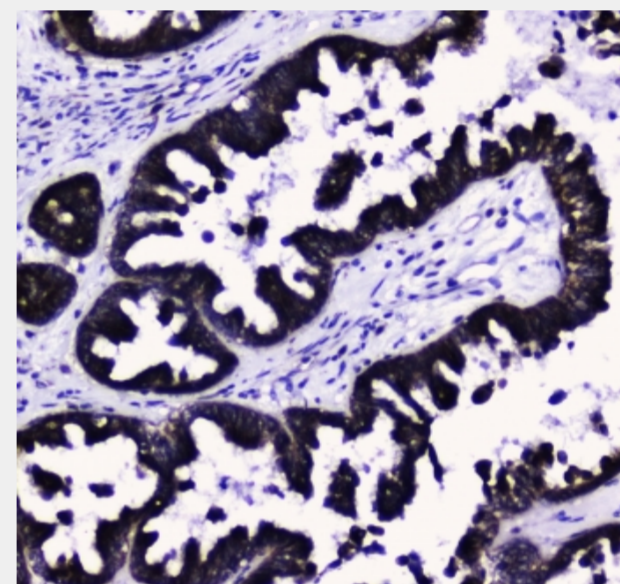
Western blot testing of human 1) HepG2 and 2) SGC-7901 lysate with COX4I1 antibody at 0.5ug/ml. Predicted molecular weight ~20 kDa.



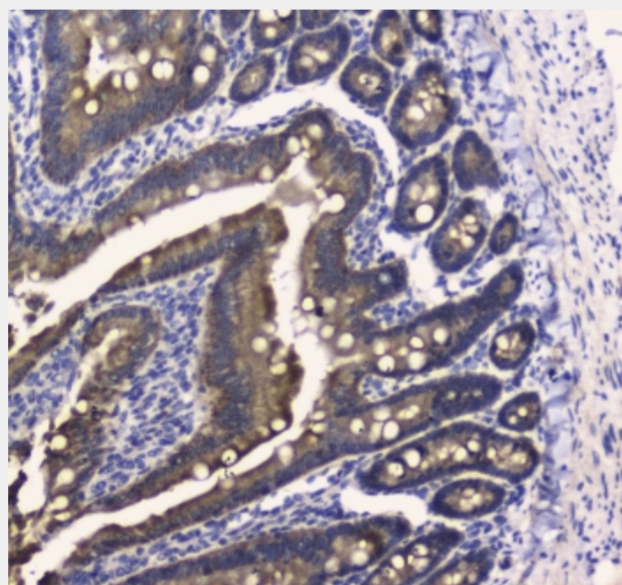
IHC testing of FFPE human intestinal cancer tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



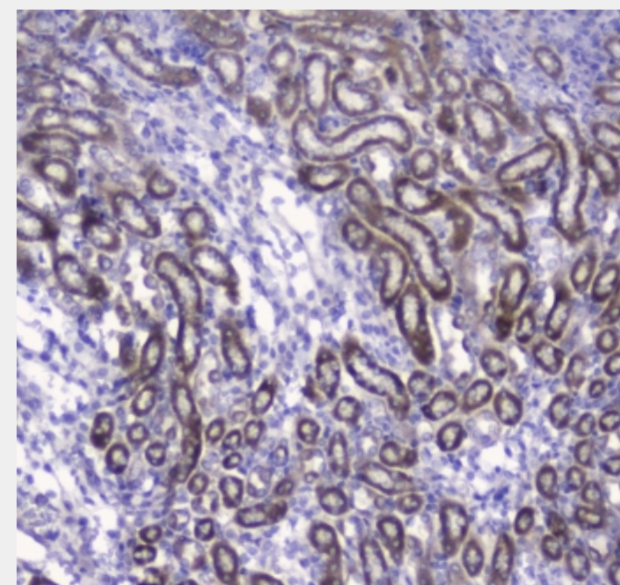
IHC testing of FFPE human placental tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



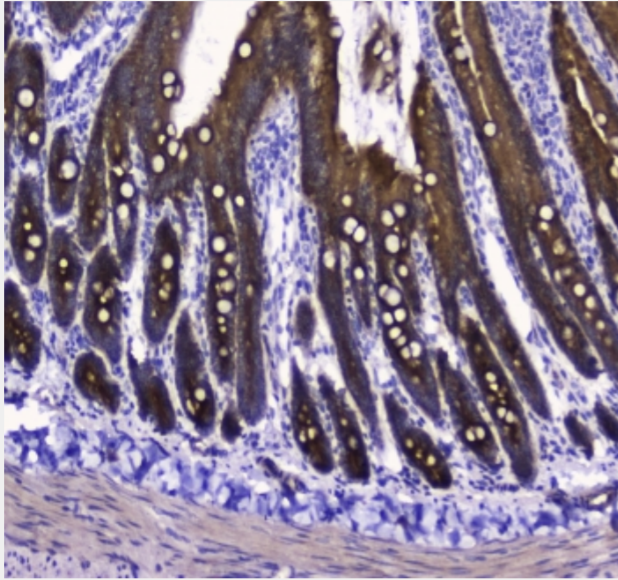
IHC testing of FFPE human thyroid cancer tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



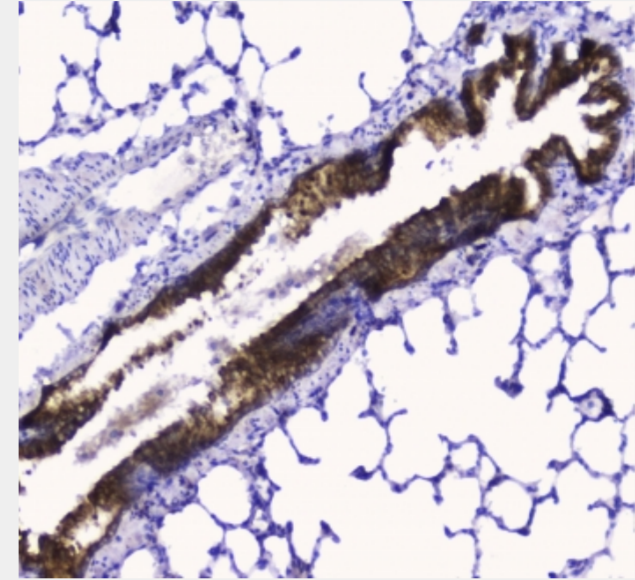
IHC testing of FFPE mouse small intestine tissue with COX4I1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



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!