Product datasheet

Anti-COX4I2 Antibody

Catalog Number: *A10078-2*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-COX4I2 Antibody
Gene Name	COX4I2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human COX4I2, which shares 88.2% and 82.4% amino acid (aa) sequence identity with mouse and rat COX4I2, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	20 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Cytochrome c oxidase subunit 4 isoform 2, mitochondrial is an enzyme that in humans is encoded by the COX4I2 gene. Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes isoform 2 of subunit IV. Isoform 1 of subunit IV is encoded by a different gene, however, the two genes show a similar structural organization. Subunit IV is the largest nuclear encoded subunit which plays a pivotal role in COX regulation.

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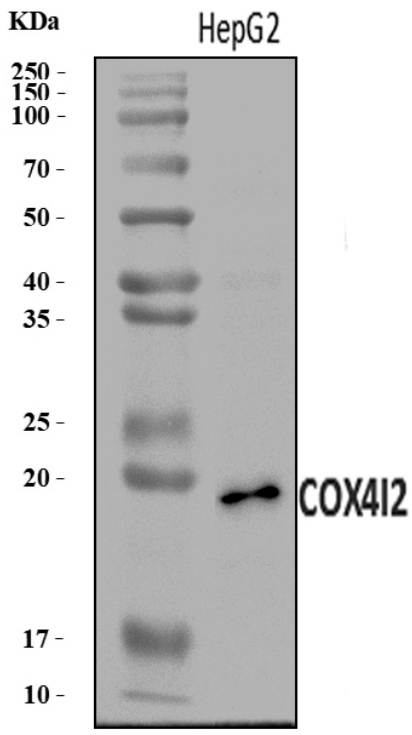
Reference

Anti-COX4I2 Antibody 被引用在1文献中。

Selected Validation Data



Western blot analysis of COX4I2 using anti-COX4I2 antibody (A10078-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: HepG2 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-COX4I2 antigen affinity purified polyclonal antibody (A10078-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for COX4I2 at approximately 20 kDa. The expected band size for COX4I2 is at 20 kDa.