BOSTER BIOLOGICAL TECHNOLOGY

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

Web: www.boster.com.cn Phone: +86 027-67845390 Fax: +86 027-67845390 Email: boster@boster.com.cn

Basic Information		
Product Name	Anti-COX4I1 Antibody	
Gene Name	COX4I1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence of COX IV/COX4I1 (EVAHVKHLSASQKALKEK).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	17KD	
Dilution Ratios	Western blot(WB): Immunohistochemistry in paraffin section (IHC): (Boiling the paraffin sections in 10mM citrate buffer, mins is required for the staining of formalin/paraffin must be determined by end user.	

Storage

12 months from date of receipt, -20° C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Cytochrome c oxidase subunit 4 isoform 1, mitochondrial is an enzyme that in humans is encoded by the COX4l1 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.

Selected Validation Data

Product datasheet Anti-COX4I1 Antibody

Catalog Number: A05442-2



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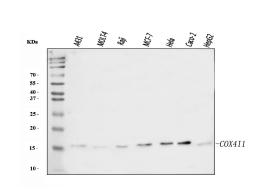


Figure 1. Western blot analysis of anti-COX4I1 Antibody (A05442-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: A431 whole cell lysates,

Lane 2: MOLT4 whole cell lysates,

Lane 3:Raji whole cell lysates,

Lane 4: MCF-7 whole cell lysates,

Lane 5: HELA whole cell lysates,

Lane 6: CACO-2 whole cell lysates,

Lane 7: HEPG2 whole cell lysates.

Use rabbit anti-COX4I1 1:1000, probed with a goat anti-rabbit IgG-

HRP secondary antibody. The signal is developed using an

Enhanced Chemiluminescent detection (ECL) kit (Catalog #

EK1002). A specific band was detected for COX4I1 at approximately

17KD. The expected band size for COX4I1 is at 20KD.