

BOSTER BIOLOGICAL TECHNOLOGY

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

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Basic Information		
Product Name	Anti-COX4I1 Antibody	
Gene Name	COX4I1	
Source	Mouse	
Isotype	lgG2b	
Species Reactivity	human,mouse,rat	
Tested Application	FCM, WB, IHC	
Contents	500 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E. coli-derived human COX IV recombinant protein (Position: Q59-K169).	
Purification	Immunogen affinity purified.	
Observed MW	17KD	
Dilution Ratios	Western blot (WB): Immunohistochemistry in paraffin section (IHC): Flow cytometry (FCM): (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 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.

Reference

Anti-COX4I1 Antibody 被引用在1文献中。

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Selected Validation Data

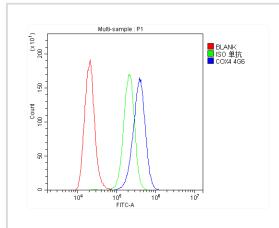


Figure 5. Flow cytometry analysis of A431 cell (1x106) DyLight 488 conjugated goat anti-mouse IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was mouse IgG DyLight 488. Unlabelled sample (Red line).

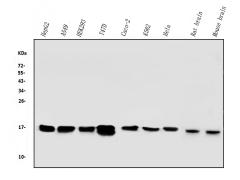


Figure 1. Western blot analysis of anti- COX4I1 antibody (M05442-1). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

Lane 2: human A549 whole cell lysates,

Lane 3: human HEK293 whole cell lysates,

Lane 4: human T47D whole cell lysates,

Lane 5: human Caco-2 whole cell lysates,

Lane 6: human K562 whole cell lysates,

Lane 7: human Hela whole cell lysates,

Lane 8: rat brain tissue lysates,

Lane 9: mouse brain tissue lysates.

Use mouse anti- COX4I1 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for COX4I1 at approximately 17KD. The expected band size for COX4I1 is at 20KD.

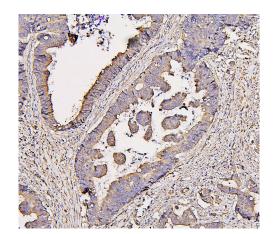


Figure 2. IHC analysis using anti- COX4I1 antibody (M05442-1). detected in paraffin-embedded section of human colon cancer tissue. Peroxidase Conjugated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog#SV0001) with DAB as the chromogen.

Product datasheet Anti-COX4I1 Antibody Catalog Number: M05442-1



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