

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

Basic Inform	nation	
Product Name	Anti-COX4I1 Antibody	
Gene Name	COX4I1	
Source	Rabbit	
lsotype	lgG	
Species Reactivity	human,mouse,rat	
Tested Application	FCM, WB, IHC, ICC/IF	
Contents	500 ug/ml antibody with PBS $_{2}$ 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): ELISA: Immunocytochemistry/Immunofluorescence (ICC/IF): Flow cytometry (FCM): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,o mins is required for the staining of formalin/paraffin section 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.

Selected Validation Data

Product datasheet Anti-COX4I1 Antibody Catalog Number: A05442-1



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

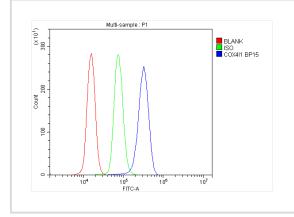


Figure 12. Flow cytometry analysis of U937 cell(1x106) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

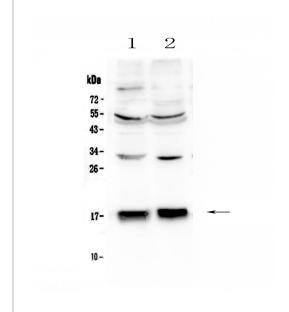


Figure 1. Western blot analysis of COX IV using anti-COX IV antibody (A05442-1). Lane 1: human HepG2 whole cell lysates,Lane 2: human SGC-7901 whole cell lysates. anti-COX IV antigen affinity purified polyclonal antibody (Catalog # A05442-1)probed with a goat anti-rabbit IgG-HRP secondary antibody The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) . A specific band was detected for COX IV at approximately 17-20KD. The expected band size for COX IV is at 20KD.

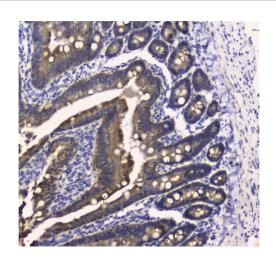
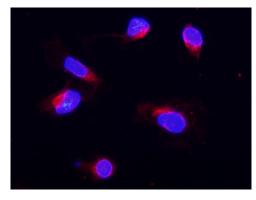


Figure 3. IHC analysis of COX IV using anti-COX IV antibody (A05442-1).COX IV was detected in paraffin-embedded section of mouse small intestine tissue. rabbit anti-COX IV Antibody (A05442-1) . Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Product datasheet Anti-COX4I1 Antibody Catalog Number: A05442-1





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

Figure 11. ICC analysis of anti-COX4I1 antibody (A05442-1).was detected in immunocytochemical section of U2OS cells. Cells were stained using the Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) and counterstained with DAPI (blue).