

Basic Information

Product Name	Anti-COX4I1 Antibody (Clone#AIC-3)										
Gene Name	COX4I1										
Source	Rabbit										
Clonality	Monoclonal										
Isotype	IgG										
Species Reactivity	human, mouse, rat										
Tested Application	WB, IHC, ICC/IF										
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.										
Immunogen	A synthesized peptide derived from human COX IV										
Purification	Affinity-chromatography										
Observed MW	17 kDa										
Dilution Ratios	<table> <tr> <td>Western blot (WB):</td> <td>1:500-2000</td> </tr> <tr> <td>Immunohistochemistry (IHC):</td> <td>1:50-200</td> </tr> <tr> <td>Immunocytochemistry/Immunofluorescence (ICC/IF):</td> <td>1:50-200</td> </tr> <tr> <td>ImmunoPrecipitation (IP):</td> <td>1:20</td> </tr> <tr> <td>Flow Cytometry (FCM):</td> <td>1:20</td> </tr> </table>	Western blot (WB):	1:500-2000	Immunohistochemistry (IHC):	1:50-200	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200	ImmunoPrecipitation (IP):	1:20	Flow Cytometry (FCM):	1:20
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Storage

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

Background Information

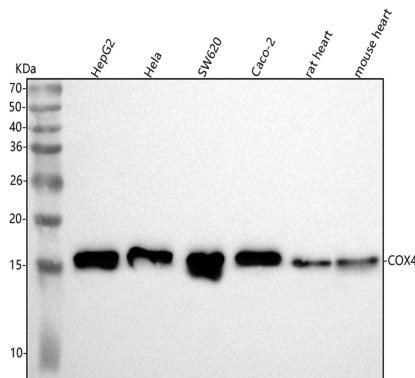
Cytochrome c oxidase subunit 4 isoform 1, mitochondrial is an enzyme that in humans is encoded by the COX4I1 gene. Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to 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 mitochondrial-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 (Clone#AIC-3)被引用在2文献中。

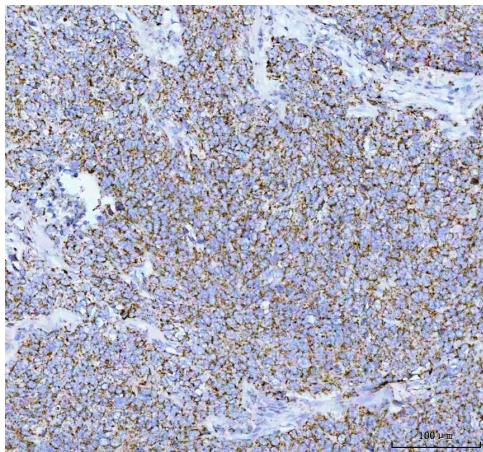
Selected Validation Data



Western blot analysis of anti-COX4I1 antibody (BM4046). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human SW620 whole cell lysates,
Lane 4: human Caco-2 whole cell lysates,
Lane 5: rat heart tissue lysates,
Lane 6: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-COX4I1 antigen affinity purified monoclonal antibody (BM4046) 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 COX4I1 at approximately 17 kDa. The expected band size for COX4I1 is at 20 kDa.



IHC analysis of COX4I1 using anti-COX4I1 antibody (BM4046) . COX4I1 was detected in a paraffin-embedded section of human cervical cancer tissue. The tissue section was incubated with rabbit anti-COX4I1 Antibody (BM4046) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.