

COX IV Monoclonal Antibody(6C8)

Description

Product type	Primary Antibody
Code	BT-MCA0026
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Recombinant Protein of Cytochrome c oxidase subunit 4 isoform 1, mitochondrial
Mol wt	19577
Species reactivity	Human,Rat,Mouse
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ICC
Concentration	1 mg/ml
Full name	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial
Synonyms	COX4I1; COX4; Cytochrome c oxidase subunit 4 isoform 1; mitochondrial; Cytochrome c oxidase polypeptide IV; Cytochrome c oxidase subunit IV isoform 1; COX IV-1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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

Recommended Dilution

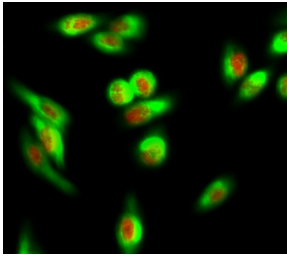
IF: 1:200

IHC: 1:50-300

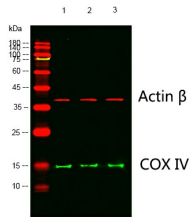
WB: 1:1000-3000

Not yet tested in other applications.

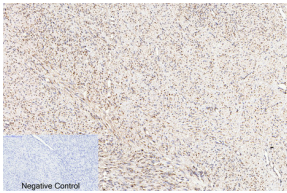
Images



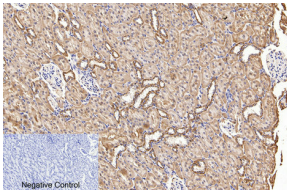
Immunofluorescence analysis of HeLa cell. AF-10 Polyclonal Antibody(red) was diluted at 1:200(4°C overnight). COX IV Monoclonal antibody(6C8)(green) was diluted at 1:200(4°C overnight).



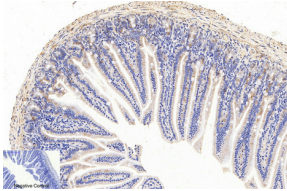
Western blot analysis of lysates from 1) COS7,2) 3T3.3) HeLa cells, (Green) primary antibody was diluted at 1:1000, 4°C overnight, Dylight 800 secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) Actin Beta Polyclonal Antibody antibody was diluted at 1:5000 as loading control, 4°C overnight, Dylight 680 secondary antibody was diluted at 1:10000, 37°C 1hour.



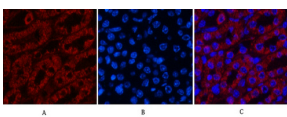
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1.COX IV Monoclonal antibody(6C8) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



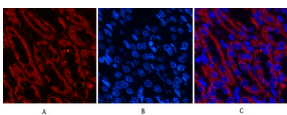
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1.COX IV Monoclonal antibody(6C8) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



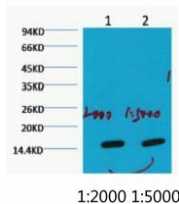
Immunohistochemical analysis of paraffin-embedded Mouse-colon tissue. 1.COX IV Monoclonal antibody(6C8) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Mouse-kidney tissue. 1.COX IV Monoclonal antibody(6C8)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Rat-kidney tissue. 1.COX IV Monoclonal antibody(6C8)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of HeLa diluted at 1) 1:2000 2) 1:5000.

Storage

-20°C for one year

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