

COX IV Mouse mAb (AM10006)

Key Features

Host Species:	Mouse
Reactivity:	Human,Mouse,Rat
Applications:	WB,IF,ELISA,IHC
Isotype:	IgG2b,kappa
MW:	20kD (Calculated) 17kD (Observed)

Recommended Dilution Ratios

IHC:	1:200-1000
WB:	1:500-2000
IF:	1:100-500
ELISA:	1:1000-5000

Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
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Immunogen Information

Specificity	Endogenous
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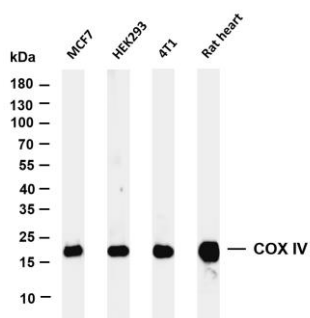
Target Information

Gene name	COX4I1
Protein Name	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial

Organism	Gene ID	UniProt ID
Human	1327	P13073
Mouse	12857	P19783
Rat	29445	P10888

Cellular Localization	Mitochondrion inner membrane
Tissue specificity	Ubiquitous.

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-COX IV antibody. The HRP conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.

Lane 1: MCF7

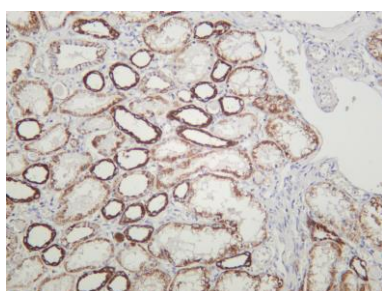
Lane 2: HEK293

Lane 3: 4T1

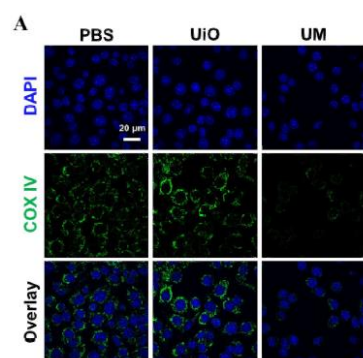
Lane 4: Rat heart

Predicted band size: 20kDa

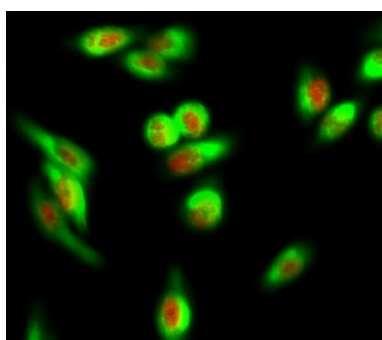
Observed band size: 17kDa



Human kidney was stained with anti-COX IV mouse antibody



Immunogenic Radiation Therapy for Enhanced Antitumor Immunity via a Core-Shell Nanosensitizer-Mediated Immunosuppressive Tumor Microenvironment Modulation.



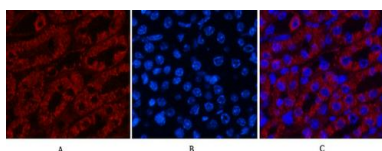
Immunofluorescence analysis of HeLa cell.

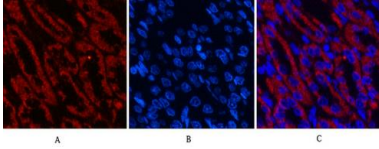
1. AF-10 Polyclonal Antibody(red) was diluted at 1:200(4° overnight). COX IV Monoclonal Antibody(6C8)(green) was diluted at 1:200 (4° overnight).
2. Goat Anti Rabbit Alexa Fluor 594 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 was diluted at 1:1000(room temperature, 50min).

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. 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 labled Secondary antibody was diluted at 1:300(room temperature, 50min).
3. DAPI (blue) 10min.

Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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