

## COX IV (PTR1399) Mouse mAb

CatalogNo: YM4289

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat,

#### Applications

- WB, IF, ELISA, IHC

#### MW

- 20kD (Calculated)
- 17kD (Observed)

#### Isotype

- IgG2b, kappa

### Recommended Dilution Ratios

IHC 1:200-1000

WB 1:500-2000

IF 1:100-500

ELISA 1:1000-5000

### Storage

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

**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Basic Information

**Clonality** Monoclonal

**Clone Number** PTR1399

### Immunogen Information

**Immunogen** AA range: 100-200

**Specificity** This antibody detects endogenous levels of COX IV protein.

## Target Information

**Gene name** COX4I1

**Protein Name** Cytochrome c oxidase subunit 4 isoform 1, mitochondrial

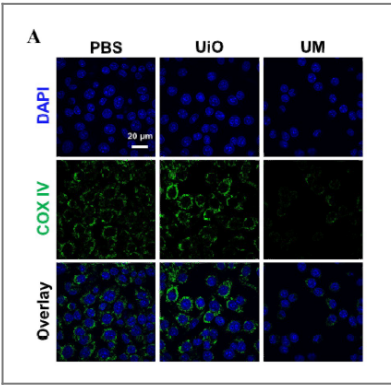
Organism	Gene ID	UniProt ID
Human	<a href="#">1327;</a>	<a href="#">P13073;</a>
Mouse	<a href="#">12857;</a>	<a href="#">P19783;</a>
Rat	<a href="#">29445;</a>	<a href="#">P10888;</a>

**Cellular Localization** Mitochondrion inner membrane

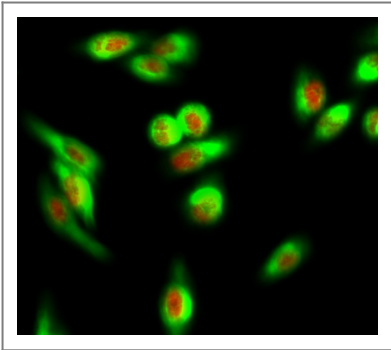
**Tissue specificity** Ubiquitous.

**Function** Function:This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.,similarity:Belongs to the cytochrome c oxidase IV family.,tissue specificity:Ubiquitous.,

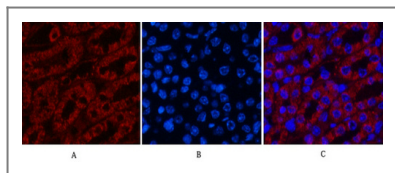
## Validation Data



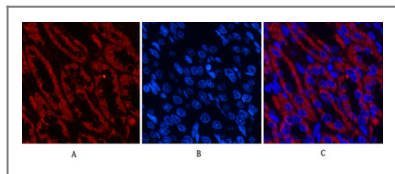
Immunogenic Radiation Therapy for Enhanced Antitumor Immunity via a Core-Shell Nanosensitizer-Mediated Immunosuppressive Tumor Microenvironment Modulation. ACS Nano Jin-Xiang Chen IF Mouse 4T1 cell-xenograft



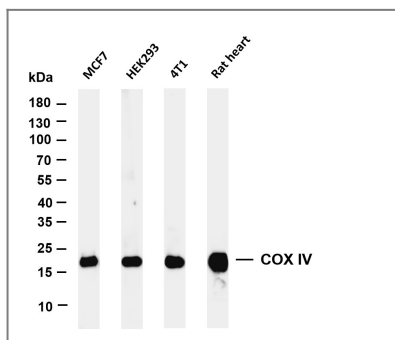
Immunofluorescence analysis of HeLa cell. 1,AF-10 Polyclonal Antibody(red) was diluted at 1:200(4° overnight). COX IV Monoclonal Antibody(6C8)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



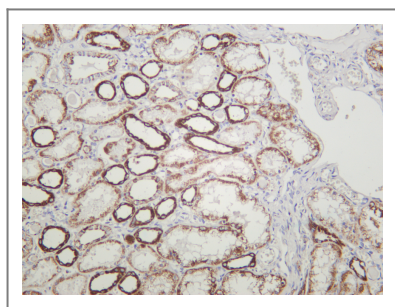
Immunofluorescence analysis of Mouse-kidney tissue. 1, COX IV Monoclonal Antibody(6C8)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



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



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-COX IV (PTR1399) 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 (PTR1399) mouse antibody

## Contact information

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Please scan the QR code to access additional product information:  
**COX IV (PTR1399)**  
**Mouse mAb**

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