

For Research Use Only

# COA6 Polyclonal antibody

Catalog Number: 24209-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

24209-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG21525

### GenBank Accession Number:

BC116455

### GeneID (NCBI):

388753

### UNIPROT ID:

Q5JTJ3

### Full Name:

chromosome 1 open reading frame 31

### Calculated MW:

125 aa, 14 kDa

### Observed MW:

10 - 18 kDa

### Purification Method:

Antigen Affinity purified

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human

### Positive Controls:

WB : HEK-293 cells, mouse liver tissue

IP : HEK-293 cells,

IHC : human kidney tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

C1orf31, also known as COA6, is a conserved mitochondrial protein required for respiratory complex IV biogenesis. Recently study reported that C1orf31 is required for maintenance of cytochrome c oxidase (CcO) subunit levels, and has role in the Cu delivery pathway to CcO. Defects in C1orf31 is associated with mitochondrial respiratory chain disease (MRCD). (24549041)

## Notable Publications

Author	Pubmed ID	Journal	Application
Alok Ghosh	24549041	Hum Mol Genet	WB
Wenting Liu	39472746	Sci Rep	WB
Liming Zhang	38694039	Heliyon	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

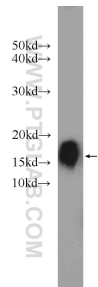
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

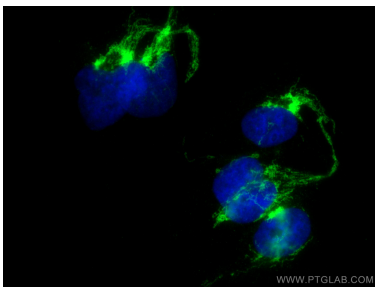
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

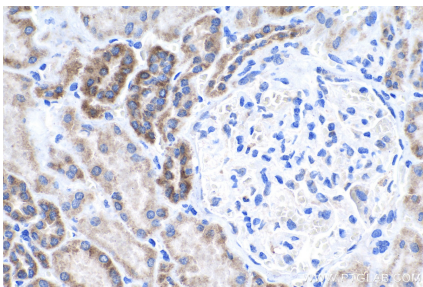
Selected Validation Data



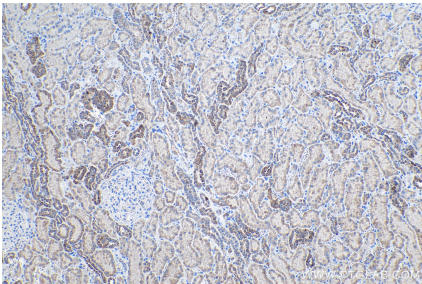
HEK-293 cells were subjected to SDS PAGE followed by western blot with 24209-1-AP (COA6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



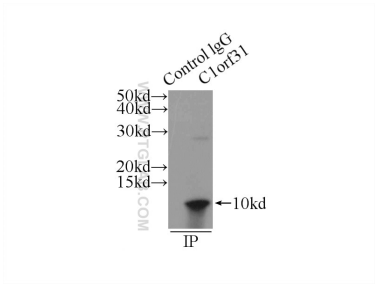
Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using C1orf31 antibody (24209-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 24209-1-AP (COA6 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 24209-1-AP (COA6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-COA6 (IP:24209-1-AP, 4ug; Detection:24209-1-AP 1:500) with HEK-293 cells lysate 1760ug.