For Research Use Only

COA6 Polyclonal antibody

Catalog Number:24209-1-AP Featured Product 7 Publications

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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

Cited Species:
human, mouse

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

Positive Controls:

WB : HEK-293 cells,

IP : HEK-293 cells,

IHC : human kidney tissue,

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
Jingjing Tie	42036720	Transl Neurodegener	WB,IHC,IF
Kailiang Tian	41015250	Biochim Biophys Acta Mol Cell Res	

Storage

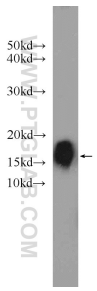
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

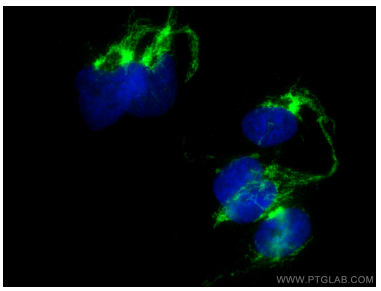
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

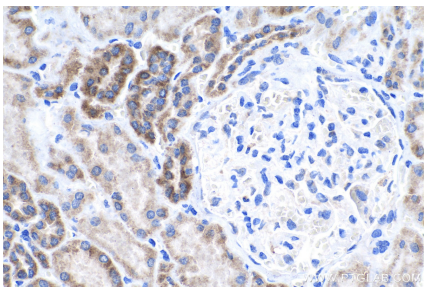
Selected Validation Data



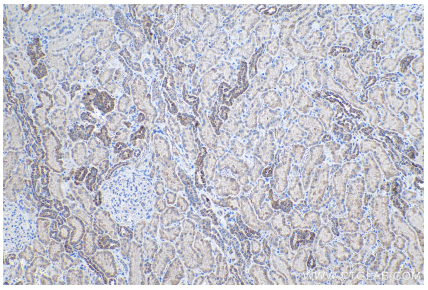
HEK-293 cells were subjected to SDS PAGE followed by western blot with 24209-1-AP (COA6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



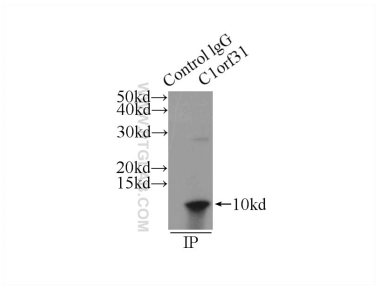
Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using C1orf31 antibody (24209-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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.