

For Research Use Only

# C4 Alpha Chain/C4b/C4d Polyclonal antibody

Catalog Number: 22233-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

22233-1-AP

### Concentration:

700 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG17583

### GenBank Accession Number:

BC063289

### GeneID (NCBI):

720

### UNIPROT ID:

POCOL4

### Full Name:

complement component 4A (Rodgers blood group)

### Calculated MW:

1744 aa, 193 kDa

### Observed MW:

80-95 kDa, 200 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:4000-1:40000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, CoIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: L02 cells, human blood, mouse liver tissue

IP: L02 cells,

IHC: human liver 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

Complement C4, a component of the classical complement pathway, has an important role in innate immune function. C4 protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains (molecular weights 95, 78, and 31 kDa) prior to secretion. The alpha chain is cleaved to release C4 anaphylatoxin, an antimicrobial peptide and a mediator of local inflammation. This antibody raised against 1017-1336aa of human C4-A protein can recognize C4 precursor, C4 alpha chain, C4b, and C4d.

## Notable Publications

Author	Pubmed ID	Journal	Application
Robert W Hu	33134491	Transplant Direct	WB
Anabella A Barrios	31178241	Immunobiology	WB
Jieling Liang	39806768	Ren Fail	WB,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

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

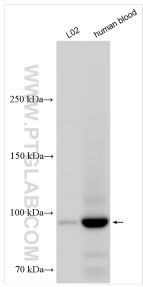
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

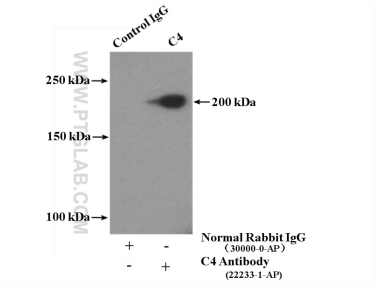
W: [ptgcn.com](http://ptgcn.com)

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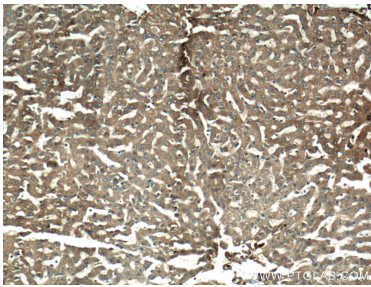
Selected Validation Data



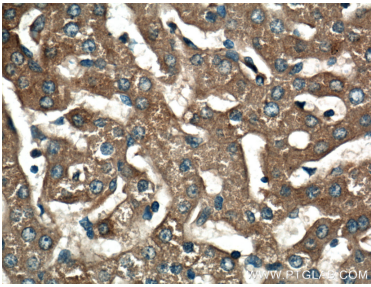
Various lysates were subjected to SDS PAGE followed by western blot with 22233-1-AP (C4 Alpha Chain/C4b/C4d antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



IP result of anti-C4 Alpha Chain/C4b/C4d (IP:22233-1-AP, 4ug; Detection:22233-1-AP 1:1000) with L02 cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 22233-1-AP (C4 alpha chain/C4b/C4d antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 22233-1-AP (C4 alpha chain/C4b/C4d antibody) at dilution of 1:200 (under 40x lens).