

For Research Use Only

# C3/C3b/C3c Polyclonal antibody

Catalog Number: 21337-1-AP

Featured Product

53 Publications



## Basic Information

### Catalog Number:

21337-1-AP

### Size:

700 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG15537

### GenBank Accession Number:

BC150179

### GeneID (NCBI):

718

### UNIPROT ID:

P01024

### Full Name:

complement component 3

### Calculated MW:

1663 aa, 187 kDa

### Observed MW:

115 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:1000-1:4000

IF 1:50-1:500

## Applications

### Tested Applications:

IF/ICC, IF-P, IHC, IP, WB, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human, rat, mouse

### Cited Species:

human, rat, mouse, pig, bovine

**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 : rat plasma, human plasma

IP : human plasma tissue,

IHC : human liver tissue, human liver cancer tissue

IF : human liver cancer tissue, HeLa cells

## Background Information

The complement system is an important effector which bridges the innate and adaptive immune systems (PMID: 20010915). The third component of complement, C3, plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways (PMID: 11414361). Human C3, composed of  $\alpha$  and  $\beta$  chains (115 and 75 kDa, respectively), is cleaved into C3a and C3b by C3 convertase. C3b is further cleaved into iC3b, C3c, C3dg, and C3f. This antibody raised against 1314-1663 aa of human C3 protein recognizes C3 alpha chain, C3b alpha' chain, and C3c alpha' chain fragment 2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jing-Yi Hou	36126455	Biomed Pharmacother	IF
Xiao Zhai	34496892	J Nanobiotechnology	IF
Ruonan Gao	36306990	Free Radic Biol Med	IF, WB

## 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:

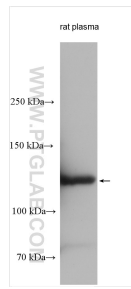
T: 4006900926

E: Proteintech-CN@ptglab.com

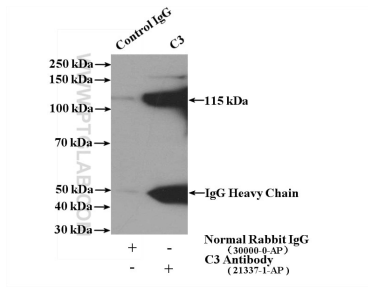
W: ptgcn.com

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

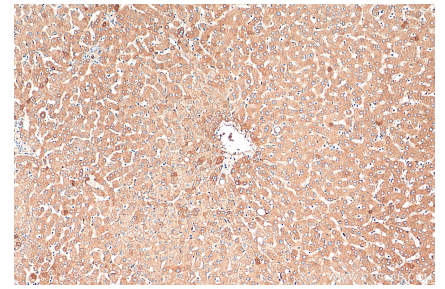
## Selected Validation Data



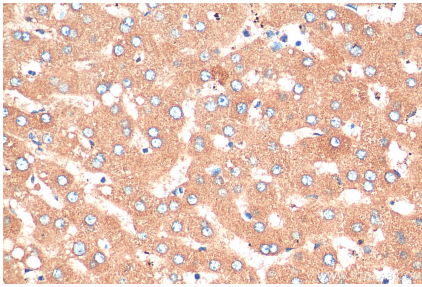
rat plasma was subjected to SDS PAGE followed by western blot with 21337-1-AP (C3/C3b/C3c antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



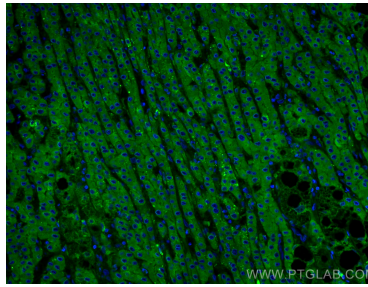
IP result of anti-C3/C3b/C3c (IP:21337-1-AP, 4ug; Detection:21337-1-AP 1:1000) with human plasma lysate 4000 ug.



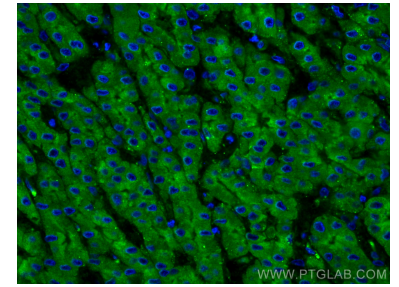
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 21337-1-AP (C3/C3b/C3c antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 21337-1-AP (C3/C3b/C3c antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using C3/C3b/C3c antibody (21337-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using C3/C3b/C3c antibody (21337-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).