

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:

150ul, Concentration: 700 µg/ml by Nanodrop;

### 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:

WB, IP, IF, IHC, ELISA

### Cited Applications:

WB, IF, IHC, 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

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

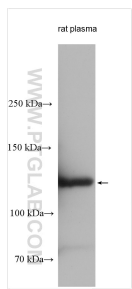
For technical support and original validation data for this product please contact:

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

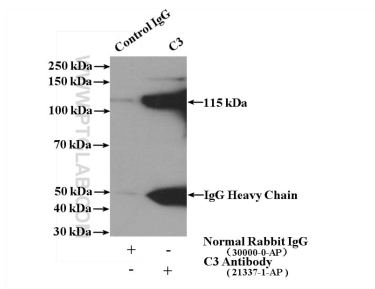
E: proteintech@ptglab.com  
W: ptglab.com

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

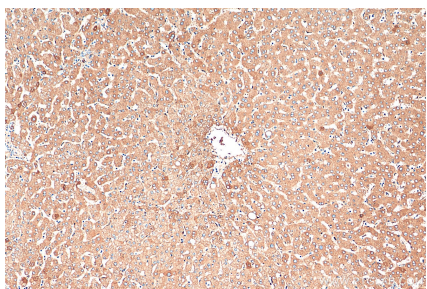
Selected Validation Data



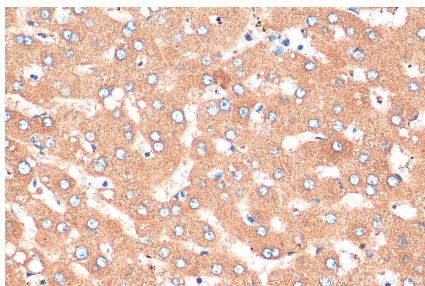
rat plasma was subjected to SDS PAGE followed by western blot with 21337-1-AP (C3/C3b/C3c antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



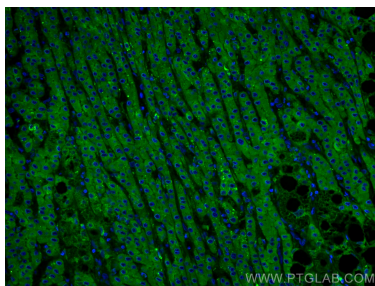
IP result of anti-C3/C3b/C3c (IP:21337-1-AP, 4ug; Detection:21337-1-AP 1:1000) with human plasma lysate 4000 ug.



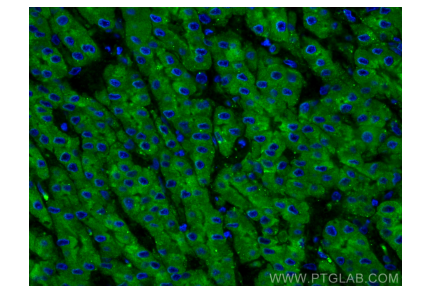
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 21337-1-AP (C3/C3b/C3c antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).