

For Research Use Only

# GBP5 Polyclonal antibody

Catalog Number: 13220-1-AP

Featured Product

44 Publications



## Basic Information

### Catalog Number:

13220-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 427 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4103

### GenBank Accession Number:

BC031639

### GeneID (NCBI):

115362

### UNIPROT ID:

Q96PP8

### Full Name:

guanylate binding protein 5

### Calculated MW:

586 aa, 67 kDa

### Observed MW:

65 kDa, 55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, rat

### Cited Species:

human, rat

**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 : U-937 cells, Jurkat cells

IP : U-937 cells,

IHC : rat spleen tissue,

## Background Information

Guanylate binding protein (GBP) 5 belongs to the GBP family, which is involved in important cellular processes, including signal transduction, translation, vesicle trafficking, and exocytosis. GBP5 was reported to be a critical cellular factor in inflammasome assembly. Furthermore, GBP5 has been reported to induce inflammatory cytokines, including IL-1 beta and IL-18, through the activation of NLRP3 and AIM2. GBP5 encodes two isoforms: GBP-5a/b (67 kDa) and GBP-5ta (55 kDa)

## Notable Publications

Author	Pubmed ID	Journal	Application
Naiquan Liu	36175170	Immunol Invest	WB,IHC
Ting-Ting Yu	34562845	Int Immunopharmacol	WB
Hua-Zhen Xu	34488792	J Nanobiotechnology	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

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

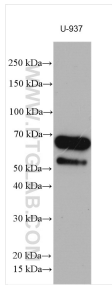
For technical support and original validation data for this product please contact:

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

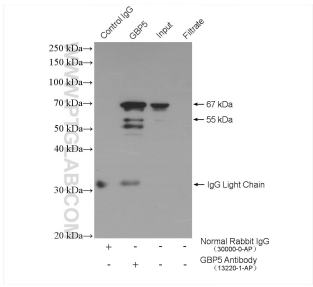
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

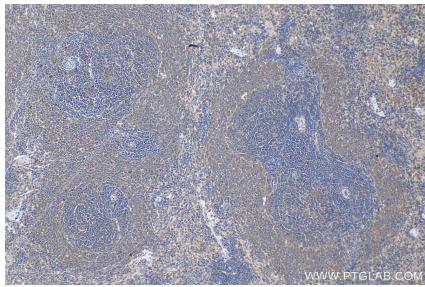
Selected Validation Data



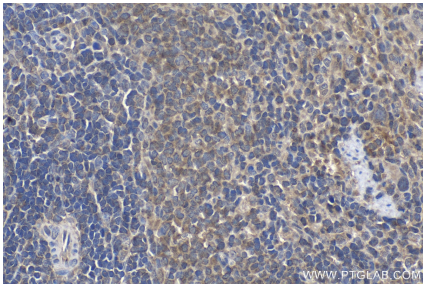
U-937 cells were subjected to SDS PAGE followed by western blot with 13220-1-AP (GBP5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



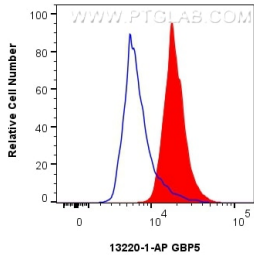
IP result of anti-GBP5 (IP:13220-1-AP, 4ug; Detection:13220-1-AP 1:1000) with U-937 cells lysate 4000 ug.



Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 13220-1-AP (GBP5 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 13220-1-AP (GBP5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug GBP5 Polyclonal antibody (13220-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).