

For Research Use Only

# GABARAP Polyclonal antibody

Catalog Number: 18723-1-AP

Featured Product

28 Publications



## Basic Information

### Catalog Number:

18723-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC106748

### GeneID (NCBI):

11337

### UNIPROT ID:

O95166

### Full Name:

GABA(A) receptor-associated protein

### Calculated MW:

14 kDa

### Observed MW:

14-18 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:6000

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

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IF, CoIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, monkey

### Positive Controls:

**WB**: HeLa cells, A549 cells, mouse brain tissue, human placenta tissue, mouse pancreas tissue, human heart tissue, mouse skeletal muscle tissue, HuH-7 cells, SH-SY5Y cells, RAW 264.7 cells, mouse liver tissue, rat brain tissue

**IP**: HeLa cells,

**IF/ICC**: HepG2 cells, Starvation treated HepG2 cells

**FC (Intra)**: HepG2 cells,

## Background Information

GABARAP (Gamma-aminobutyric acid type A receptor-associated protein), was initially identified as GABAA receptor binding protein and has shown to be implicated in intracellular trafficking of GABAA receptors. Through interacting with a broad range of proteins, GABARAP has been demonstrated as a multifunctional protein implicated in intracellular vesicle trafficking, apoptosis, and autophagy. The protein level of lipidated form of GABARAP (GABARAP-II) is upregulated during the autophagic process, which makes it as an autophagic marker. This antibody detected endogenous GABARAP protein in lysates from various tissues. It may cross-react with GABARAPL1 due to the high identity of amino acid sequence.

## Notable Publications

Author	Pubmed ID	Journal	Application
Linyu Sun	3455354	Mol Cell	WB
Svenja Zielke	33111629	Autophagy	WB
Zhen-Hua Chen	27740626	Cell Death Differ	WB

## 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

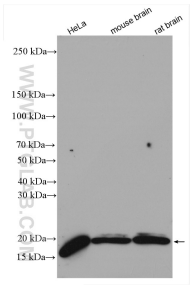
For technical support and original validation data for this product please contact:

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

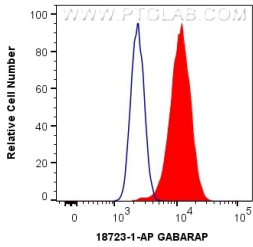
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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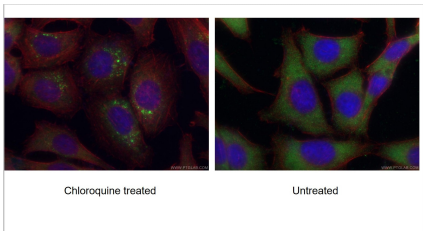
Selected Validation Data



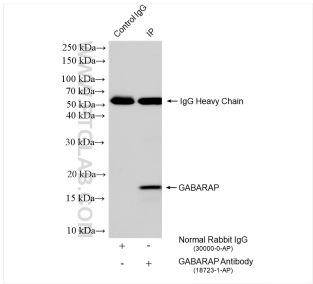
Various lysates were subjected to SDS PAGE followed by western blot with 18723-1-AP (GABARAP antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human GABARAP (18723-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HepG2 cells and untreated HepG2 cells using GABARAP antibody (18723-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-GABARAP (IP:18723-1-AP, 4ug; Detection:18723-1-AP 1:2000) with HeLa cells lysate 1200 ug.