

For Research Use Only

GABARAPL1-Specific Polyclonal antibody

Catalog Number: 18721-1-AP

3 Publications



Basic Information

Catalog Number:

18721-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_031412

GeneID (NCBI):

23710

UNIPROT ID:

Q9HOR8

Full Name:

GABA(A) receptor-associated protein like 1

Calculated MW:

14 kDa

Observed MW:

17 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IHC: 1:50-1:500

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

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 : mouse brain tissue, human heart tissue, human spleen tissue, mouse kidney tissue, mouse liver tissue, rat brain tissue

IHC : human kidney tissue, mouse brain tissue

FC (Intra) : HepG2 cells,

Background Information

GABARAPL1 (GABARAP-like protein 1), also named ATG8, GEC1, APG8L, ATG8L, and APG8-LIKE, is a member of the GABARP (GABAA receptor-associated protein) family. GABARAPL1 was initially identified as an estrogen-regulated gene and the protein acts in receptor and vesicle transport. It's also involved in the process of autophagy like GABARAP and GABARAPL2 and may be considered as an autophagic marker. It is expressed at very high levels in the brain, heart, peripheral blood leukocytes, liver, kidney, placenta, and skeletal muscle. And at very low levels in the thymus and small intestine. The antibody is specific to GABARAPL1 and doesn't recognize the recombinant GABARAP and GABARAPL2.

Notable Publications

Author	Pubmed ID	Journal	Application
Pengfei Xu	36435763	BMC Musculoskelet Disord	WB
Alexandra Boeske	28729737	Sci Rep	WB
Le Grand Jaclyn Nicole JN	21862879	Autophagy	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

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

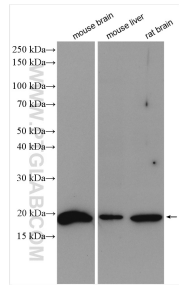
T: 4006900926

E: Proteintech-CN@ptglab.com

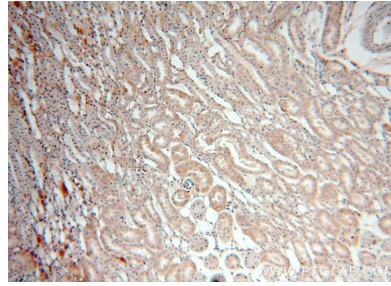
W: ptgcn.com

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

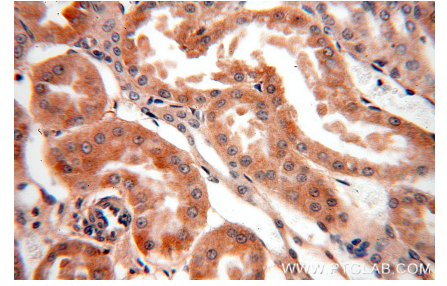
Selected Validation Data



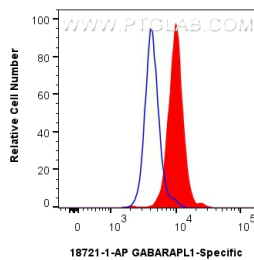
Various lysates were subjected to SDS PAGE followed by western blot with 18721-1-AP (GABARAPL1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 18721-1-AP (GABARAPL1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 18721-1-AP (GABARAPL1 antibody) at dilution of 1:100 (under 40x lens).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug GABARAPL1-Specific Polyclonal antibody (18721-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).