

For Research Use Only

# VAPB Polyclonal antibody

Catalog Number: 14477-1-AP

Featured Product

56 Publications



## Basic Information

### Catalog Number:

14477-1-AP

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5857

### GenBank Accession Number:

BC001712

### GeneID (NCBI):

9217

### UNIPROT ID:

O95292

### Full Name:

VAMP (vesicle-associated membrane protein)-associated protein B and C

### Calculated MW:

27 kDa

### Observed MW:

27 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:12000

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

IHC: 1:50-1:500

IF/ICC: 1:400-1:1600

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

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

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, monkey, zebrafish

**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: HeLa cells, HepG2 cells, Jurkat cells, mouse brain tissue, mouse liver tissue, rat liver tissue

IP: HeLa cells,

IHC: human breast cancer tissue, human pancreas cancer tissue, mouse liver tissue

IF/ICC: HeLa cells, HepG2 cells

FC (Intra): HepG2 cells,

## Background Information

Vesicle-associated membrane protein-associated protein B (VAPB) is an integral membrane protein localized to the endoplasmic reticulum (ER) membrane. VAPB has been implicated in various cellular processes, including ER stress, the unfolded protein response (UPR) and calcium homeostasis regulation. The mutations in the gene of VAPB cause amyotrophic lateral sclerosis 8 (ALS8) and some other related forms of motor neuron disease including late-onset spinal muscular atrophy.

## Notable Publications

Author	Pubmed ID	Journal	Application
Boris Simonetti	28935633	J Cell Biol	WB
Pamela A Young	30190326	J Biol Chem	WB
Hana Antonicka	32877691	Cell Metab	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:

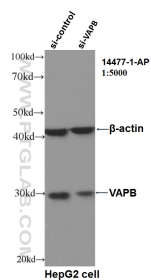
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

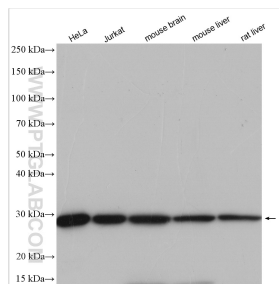
W: [ptgcn.com](http://ptgcn.com)

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

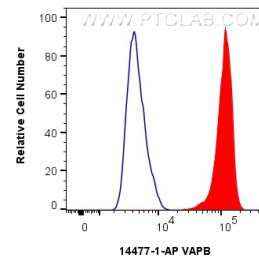
## Selected Validation Data



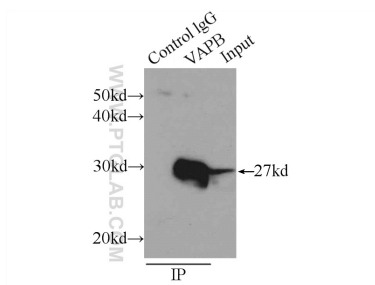
WB result of VAPB antibody (14477-1-AP, 1:5000) with si-control and si-VAPB transfected HepG2 cells.



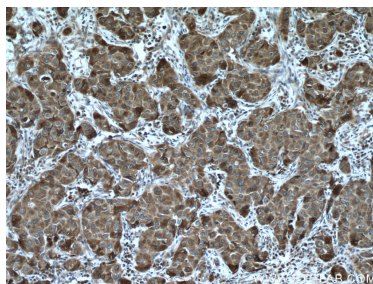
Various lysates were subjected to SDS PAGE followed by western blot with 14477-1-AP (VAPB antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



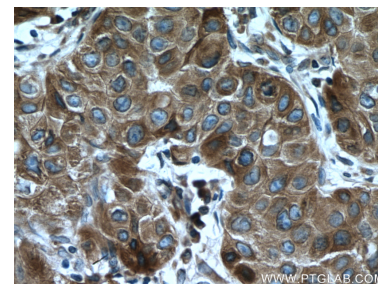
$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25  $\mu$ g VAPB Polyclonal antibody (14477-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25  $\mu$ g rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



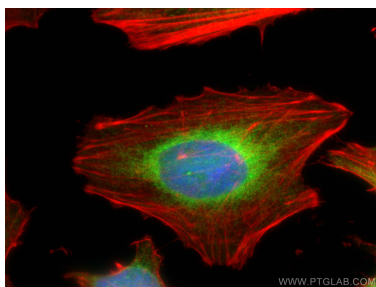
IP result of anti-VAPB (IP:14477-1-AP, 3 $\mu$ g; Detection:14477-1-AP 1:800) with HeLa cells lysate 1840 $\mu$ g.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14477-1-AP (VAPB antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14477-1-AP (VAPB antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using VAPB antibody (14477-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).