

For Research Use Only

VAPB Polyclonal ANTIBODY



Catalog Number: 14477-1-AP

Featured Product

10 Publications

Basic Information

Catalog Number:

14477-1-AP

Size:

mg/ml

Source:

Rabbit

Isotype:

IgG

Purification Method:

Antigen affinity purification

Immunogen Catalog Number:

AG5857

GenBank Accession Number:

BC001712

GeneID (NCBI):

9217

Full Name:

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

Calculated MW:

27 kDa

Observed MW:

27 kDa

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for IP and 1:500-1:1000 for

WB

IHC 1:50-1:500

IF 1:20-1:200

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB: mouse brain tissue; mouse liver tissue, HeLa cells, mouse skeletal muscle tissue, HepG2 cells, Jurkat cells, rat brain tissue

IP: HeLa cells;

IHC: human breast cancer tissue; human pancreas cancer tissue

IF: 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
Pengli Zheng	30030520	Cell Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS, pH 7.3.

Aliquoting is unnecessary for -20°C storage

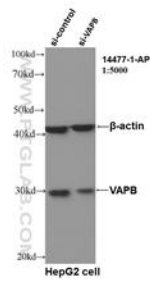
For technical support and original validation data for this product please contact:

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

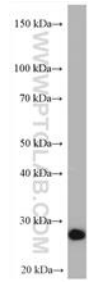
E: proteintech@ptglab.com
W: ptglab.com

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

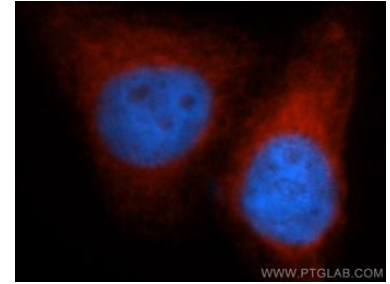
Selected Validation Data



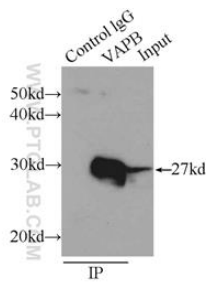
WB result of VAPB antibody (14477-1-AP, 1:5000) with si-control and si-VAPB transfected HepG2 cells.



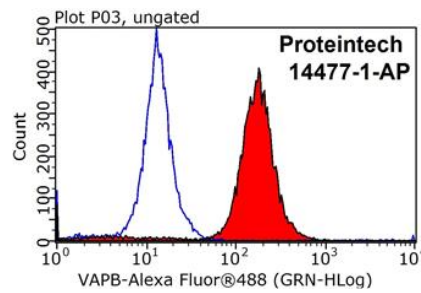
mouse brain tissue were subjected to SDS PAGE followed by western blot with 14477-1-AP (VAPB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



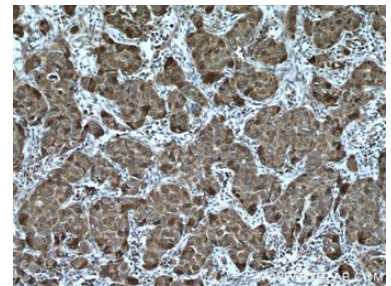
Immunofluorescent analysis of HepG2 cells, using VAPB antibody 14477-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



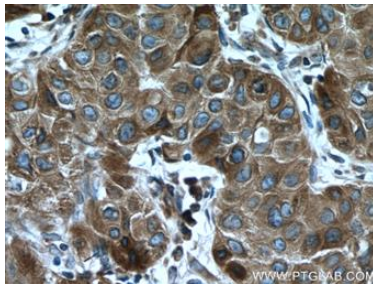
IP Result of anti-VAPB (IP:14477-1-AP, 3ug; Detection:14477-1-AP 1:800) with HeLa cells lysate 1840ug.



1X10⁶ HepG2 cells were stained with 0.2ug VAPB antibody (14477-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunohistochemistry 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 retrieved with Tris-EDTA buffer(pH9).



Immunohistochemistry 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 retrieved with Tris-EDTA buffer(pH9).