

For Research Use Only

VAPB Polyclonal antibody

Catalog Number: 14477-1-AP

Featured Product

36 Publications



Basic Information

Catalog Number:

14477-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop;

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:400-1:1600

Applications

Tested Applications:

WB, IP, IF, FC, IHC, ELISA

Cited Applications:

WB, IP, IF, IHC, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, monkey

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, mouse skeletal muscle tissue, HepG2 cells, rat brain tissue, Jurkat cells, mouse brain tissue, mouse liver tissue, rat liver tissue

IP: HeLa cells,

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

IF: HeLa cells, 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

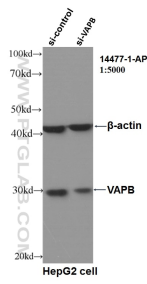
For technical support and original validation data for this product please contact:

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

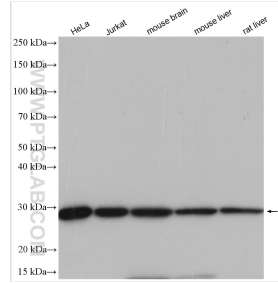
E: proteintech@ptglab.com
W: ptglab.com

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

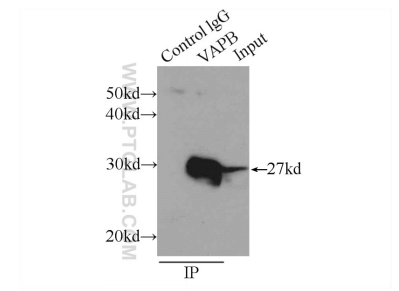
Selected Validation Data



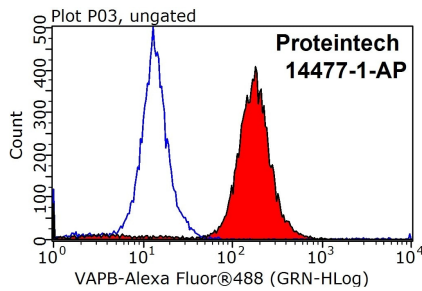
WB result of VAPB antibody (14477-1-AP, 1:5000) with si-control and si-VAPB transfected HepG2 cells.



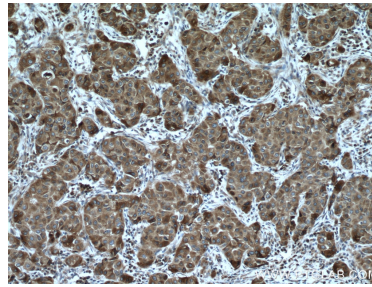
Various lysates were subjected to SDS PAGE followed by western blot with 14477-1-AP (VAPB antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



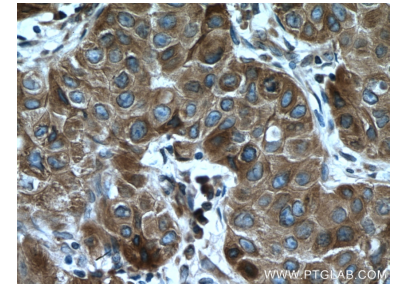
IP result of anti-VAPB (IP:14477-1-AP, 3ug; Detection:14477-1-AP 1:800) with HeLa cells lysate 1840ug.



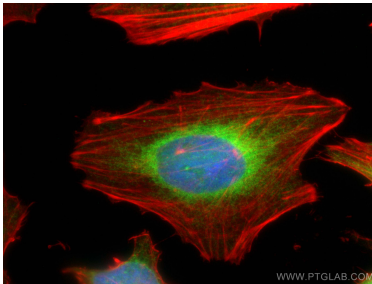
1X10⁶ HepG2 cells were stained with 0.2ug VAPB antibody (14477-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



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).