

# VAPB Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5033

## **Product Information**

Application	WB
Primary Accession	<u>095292</u>
Other Accession	<u>A5GFS8, A2VDZ9</u>
Reactivity	Human, Mouse, Rat
Predicted	Bovine
Host	Rabbit
Clonality	polyclonal
Calculated MW	27228
Isotype	Rabbit IgG
Antigen Source	HUMAN

### **Additional Information**

Gene ID	9217
Antigen Region	126-139
Other Names	Vesicle-associated membrane protein-associated protein B/C, VAMP-B/VAMP-C, VAMP-associated protein B/C, VAP-B/VAP-C, VAPB
Dilution	WB~~1:1000
Target/Specificity	This VAPB antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 126-139 amino acids from the Central region of human VAPB.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	VAPB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **Protein Information**

Name	VAPB ( <u>HGNC:12649</u> )
Function	Endoplasmic reticulum (ER)-anchored protein that mediates the formation of

	contact sites between the ER and endosomes via interaction with FFAT motif-containing proteins such as STARD3 or WDR44 (PubMed: <u>32344433</u> , PubMed: <u>33124732</u> ). Interacts with STARD3 in a FFAT motif phosphorylation dependent manner (PubMed: <u>33124732</u> ). Via interaction with WDR44 participates in neosynthesized protein export (PubMed: <u>32344433</u> ). Participates in the endoplasmic reticulum unfolded protein response (UPR) by inducing ERN1/IRE1 activity (PubMed: <u>16891305</u> , PubMed: <u>20940299</u> ). Involved in cellular calcium homeostasis regulation (PubMed: <u>22131369</u> ).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type IV membrane protein {ECO:0000250 UniProtKB:Q9P0L0}. Note=Present in mitochondria-associated membranes that are endoplasmic reticulum membrane regions closely apposed to the outer mitochondrial membrane
Tissue Location	Ubiquitous. Isoform 1 predominates.

#### Background

Participates in the endoplasmic reticulum unfolded protein response (UPR) by inducing ERN1/IRE1 activity. Involved in cellular calcium homeostasis regulation.

### References

Nishimura Y.,et al.Biochem. Biophys. Res. Commun. 254:21-26(1999). Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000). Clark H.F.,et al.Genome Res. 13:2265-2270(2003). Deloukas P.,et al.Nature 414:865-871(2001). Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).

#### Images



Western blot analysis of lysates from HepG2, Hela, SH-SY5Y, mouse NIH/3T3 cell line and rat heart tissue lysate(from left to right),using VAPB Antibody (Center)(Cat. #AW5033). AW5033 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.