

**VAPB Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5033**

**Specification**

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**VAPB Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O95292</a>
Other Accession	<a href="#">A5GFS8</a> , <a href="#">A2VDZ9</a>
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Pig
Host	Rabbit
Clonality	polyclonal
Calculated MW	H=27;M=27;Rat=27 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**VAPB Antibody (Center) - 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.

**VAPB Antibody (Center) - Protein Information**

**Name** VAPB ([HGNC:12649](#))

### 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:[32344433](http://www.uniprot.org/citations/32344433)), PubMed:[33124732](http://www.uniprot.org/citations/33124732)), PubMed:[33124732](http://www.uniprot.org/citations/33124732)). Interacts with STARD3 in a FFAT motif phosphorylation dependent manner (PubMed:[33124732](http://www.uniprot.org/citations/33124732)). Via interaction with WDR44 participates in neosynthesized protein export (PubMed:[32344433](http://www.uniprot.org/citations/32344433)). Participates in the endoplasmic reticulum unfolded protein response (UPR) by inducing ERN1/IRE1 activity (PubMed:[16891305](http://www.uniprot.org/citations/16891305)), PubMed:[20940299](http://www.uniprot.org/citations/20940299)). Involved in cellular calcium homeostasis regulation (PubMed:[22131369](http://www.uniprot.org/citations/22131369)).

### 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

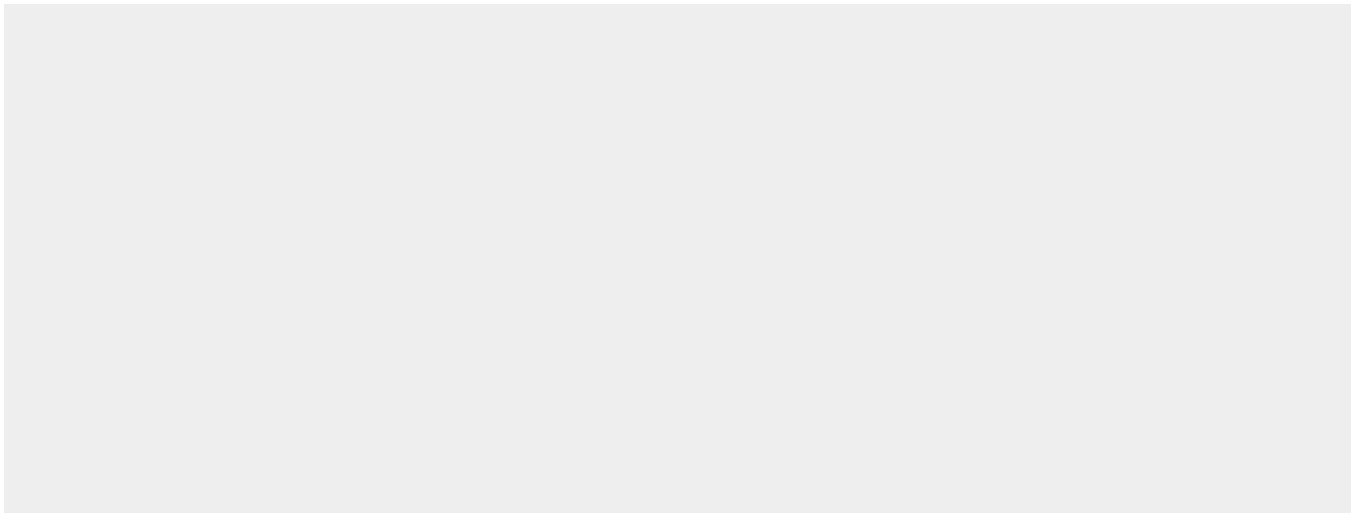
Ubiquitous. Isoform 1 predominates.

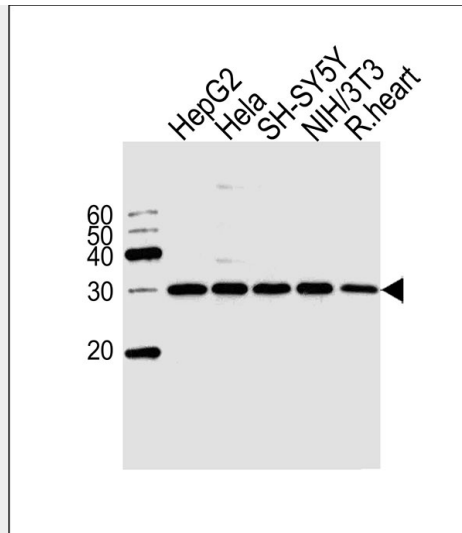
## VAPB Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## VAPB Antibody (Center) - 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.

#### **VAPB Antibody (Center) - Background**

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

#### **VAPB Antibody (Center) - 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).