

# VAPB Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5033

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">O95292</a>
<b>Other Accession</b>	<a href="#">A5GFS8</a> , <a href="#">A2VDZ9</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Predicted</b>	Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Calculated MW</b>	27228
<b>Isotype</b>	Rabbit IgG
<b>Antigen Source</b>	HUMAN

## Additional Information

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<b>Gene ID</b>	9217
<b>Antigen Region</b>	126-139
<b>Other Names</b>	Vesicle-associated membrane protein-associated protein B/C, VAMP-B/VAMP-C, VAMP-associated protein B/C, VAP-B/VAP-C, VAPB
<b>Dilution</b>	WB~~1:1000
<b>Target/Specificity</b>	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.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	VAPB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	VAPB ( <a href="#">HGNC:12649</a> )
<b>Function</b>	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](#), PubMed:[33124732](#)). Interacts with STARD3 in a FFAT motif phosphorylation dependent manner (PubMed:[33124732](#)). Via interaction with WDR44 participates in neosynthesized protein export (PubMed:[32344433](#)). Participates in the endoplasmic reticulum unfolded protein response (UPR) by inducing ERN1/IRE1 activity (PubMed:[16891305](#), PubMed:[20940299](#)). Involved in cellular calcium homeostasis regulation (PubMed:[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.

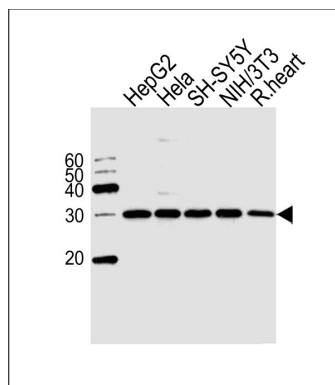
## Background

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'.