

VAPB Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20627c

Specification

VAPB Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O95292
Other Accession	A5GFS8 , A2VDZ9
Reactivity	Human, Rat
Predicted	Bovine, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	27228

VAPB Antibody (Center) - Additional Information

Gene ID 9217

Other Names

Vesicle-associated membrane protein-associated protein B/C, VAMP-B/VAMP-C, VAMP-associated protein B/C, VAP-B/VAP-C, VAPB

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.

Dilution

WB~~1:1000

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](#), 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

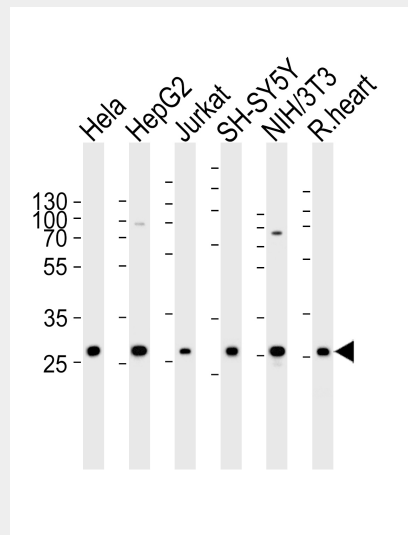
Ubiquitous. Isoform 1 predominates.

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 HeLa, HepG2, Jurkat, SH-SY5Y, mouse NIH/3T3 cell line and rat heart tissue lysate (from left to right), using VAPB Antibody (Center) (Cat. #AP20627c). AP20627c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

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).