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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:33124732, PubMed:32344433). 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

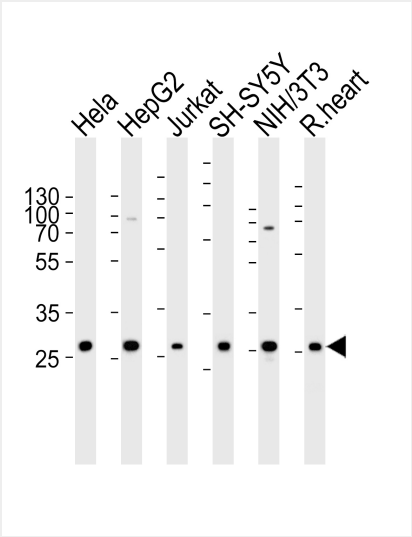
Tissue Location
Ubiquitous. Isoform 1 predominates.

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 Cytomety
- 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).