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VAPB Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5033

Product Information

Application	WB
Primary Accession	O95292
Other Accession	A5GFS8, A2VDZ9
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 (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.

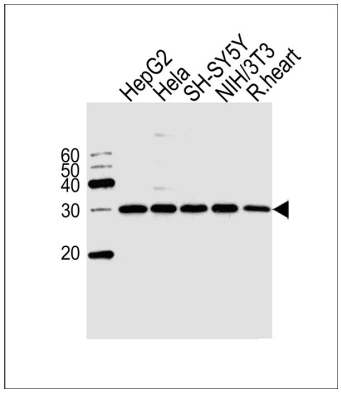
Background

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'.