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VAPB Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18906b

Product Information

Application	WB, E
Primary Accession	O95292
Other Accession	A2VDZ9, NP_004729.1
Reactivity	Human
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40159
Calculated MW	27228
Antigen Region	171-200

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 rabbits immunized with a KLH conjugated synthetic peptide between 171-200 amino acids from the C-terminal region of human VAPB.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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 (C-term) 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.

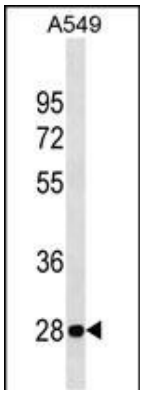
Background

The protein encoded by this gene is a type IV membrane protein found in plasma and intracellular vesicle membranes. The encoded protein is found as a homodimer and as a heterodimer with VAPA. This protein also can interact with VAMP1 and VAMP2 and may be involved in vesicle trafficking.

References

Millecamps, S., et al. J. Med. Genet. 47(8):554-560(2010)
Langou, K., et al. J. Neurochem. 114(3):795-809(2010)
Tsai, C.P., et al. Neurobiol. Aging (2010) In press :
Nachreiner, T., et al. Biochem. Biophys. Res. Commun. 394(3):703-708(2010)
Funke, A.D., et al. Clin. Genet. 77(3):302-303(2010)

Images



VAPB Antibody (C-term)(Cat. #AP18906b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the VAPB antibody detected the VAPB protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.