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VAPB Blocking Peptide (Center)

Synthetic peptide
Catalog # BP20627c

Specification

VAPB Blocking Peptide (Center) - Product Information

Primary Accession	O95292
Other Accession	A5GFS8, A2VDZ9

VAPB Blocking Peptide (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
The synthetic peptide sequence is selected from aa 126-159 of HUMAN VAPB

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VAPB Blocking Peptide (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:<a

href="http://www.uniprot.org/citations/22131369" target="_blank">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 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

VAPB Blocking Peptide (Center) - Images

VAPB Blocking Peptide (Center) - Background

Participates in the endoplasmic reticulum unfolded protein response (UPR) by inducing ERN1/IRE1 activity. Involved in cellular calcium homeostasis regulation.

VAPB Blocking Peptide (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).