VAPB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VAPB, Polyclonal Antibody
Full Product Name	VAPB, CT (VAPB, Vesicle-associated membrane protein-associated protein B/C) (MaxLight 750)
Product Gene Name	anti-VAPB antibody
Product Synonym Names	VAPB; Vesicle-associated membrane protein-associated protein B/C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	182980
3D Structure	ModBase 3D Structure for O95292
Immunogen	VAPB antibody is generated from rabbits immunized with a KLH conjugated synthetic between 170-200 amino acids selected from the C-terminal region of human VAPB.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-VAPB antibody	Antibodies; Membrane Proteins
Applications Tested/Suitable for anti-VAPB antibody	Western Blot (WB), FLISA
Application Notes for anti-VAPB antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-VAPB antibody	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.
Product References and Citations for anti-VAPB antibody	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).
Other Notes	Small volumes of anti-VAPB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VAPB purchase	MBS6362255 is an antibody targeting VAPB. Also known as VAPB, CT (VAPB, Vesicle-associated membrane protein-associated protein B/C) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VAPB. It may not necessarily be applicable to this product.

NCBI GI #	4759302
NCBI GeneID	9217
NCBI Accession #	NP_004729.1
UniProt Primary Accession #	O95292
UniProt Related Accession #	O95292
GenBank Nucleotide #	NP_004729.1
NCBI Official Full Name	vesicle-associated membrane protein-associated protein B/C isoform 1
NCBI Official Synonym Full Names	VAMP associated protein B and C
NCBI Official Symbol	VAPB
NCBI Official Synonym Symbols	ALS8; VAP-B; VAMP-B
UniProt Protein Name	Vesicle-associated membrane protein-associated protein B/C
Protein Family	Antitoxin
UniProt Gene Name	VAPB
UniProt Synonym Gene Names	VAMP-B/VAMP-C; VAMP-associated protein B/C; VAP-B/VAP-C
UniProt Entry Name	VAPB_HUMAN
NCBI Protein Information	vesicle-associated membrane protein-associated protein B/C
UniProt Comments for VAPB	VAPB: Participates in the endoplasmic reticulum unfolded protein response (UPR) by inducing ERN1/IRE1 activity. Involved in cellular calcium homeostasis regulation. Defects in VAPB are the cause of amyotrophic lateral sclerosis type 8 (ALS8). ALS8 is a familial form of amyotrophic lateral sclerosis, a neurodegenerative disorder affecting upper and lower motor neurons and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of amyotrophic lateral sclerosis is likely to be multifactorial, involving both genetic and environmental factors. The disease is inherited in 5-10% of cases leading to familial forms. Defects in VAPB are a cause of spinal muscular atrophy proximal adult autosomal dominant (SMAPAD); also called late-onset spinal muscular atrophy Finkel type. A form of spinal muscular atrophy, a neuromuscular disorder characterized by degeneration of the anterior horn cells of the spinal cord, leading to symmetrical muscle weakness and atrophy. SMAPAD is characterized by proximal muscle weakness that begins in the lower limbs and then progresses to upper limbs, onset in late adulthood (after third decade) and a benign course. Most of the patients remain ambulatory 10 to 40 years after clinical onset. Belongs to the VAMP-associated protein (VAP) (TC 9.B.17) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 20q13.33 Cellular Component: Golgi membrane; Golgi apparatus; endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane Molecular Function: protein binding; enzyme binding; protein homodimerization activity; FFAT motif binding; protein heterodimerization activity; microtubule binding; beta-tubulin binding Biological Process: endoplasmic reticulum organization and biogenesis; cellular calcium ion homeostasis; ER to Golgi vesicle-mediated transport; unfolded protein response, activation of signaling protein activity; sphingolipid metabolic process; positive regulation of viral genome replication; sphingolipid biosynthetic process; unfolded protein response; virus-host interaction; negative regulation of viral protein levels in host cell Disease: Spinal Muscular Atrophy, Late-onset, Finkel Type; Amyotrophic Lateral Sclerosis 8

Research Articles on VAPB	**1.** VAPB could be a cellular component of a complex that facilitates UL31/UL34/US3-mediated HSV-1 nuclear egress.
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