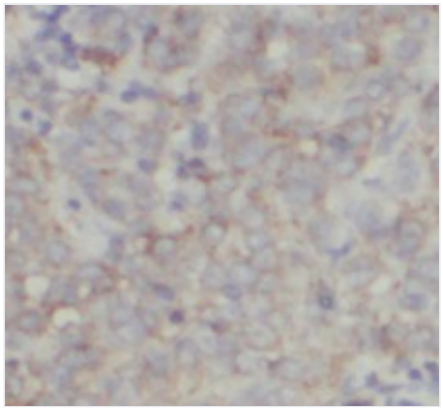
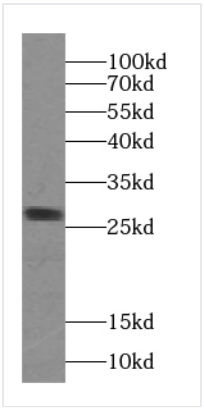
VAPB Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	VAPB, Monoclonal Antibody
Full Product Name	VAPB Mouse Monoclonal
Product Gene Name	anti-VAPB antibody
Clonality	Monoclonal
Isotype	IgG1
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>=95% as determined by SDS-PAGE Protein A+G purification
Preparation and Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20 degree C for 24 months (Avoid repeated freeze / thaw cycles.)
Molecular Weight	11,152 Da
OMIM	182980
Immunogen	VAMP (vesicle-associated membrane protein)-associated protein B and C
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-VAPB antibody	ELISA (EIA), Western Blot (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)
Related Product Information for anti-VAPB antibody	MBS7605604 is an antibody targeting VAPB. Also known as VAPB Mouse Monoclonal. Reactive in Human. Host: Mouse.
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.



Immunohistochemistry (IHC) of anti-VAPB antibody
Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using MBS7605604 (VAPB Antibody) at dilution of 1:50



Western Blot (WB) of anti-VAPB antibody
HepG2 cells were subjected to SDS PAGE followed by western blot with MBS7605604 (VAPB Antibody) at dilution of 1:1000

ADDITIONAL DETAILS

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

NCBI GI #	823670066
NCBI GeneID	9217
NCBI Accession #	AKI70245.1
UniProt Secondary Accession #	O95293; Q9P0H0; A2A2F2
UniProt Related Accession #	O95292
NCBI Official Full Name	VAPB, partial
NCBI Official Synonym Full Names	VAMP (vesicle-associated membrane protein)-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
NCBI Summary for VAPB	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. [provided by RefSeq, Jul 2008]
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: endoplasmic reticulum; endoplasmic reticulum membrane; Golgi apparatus; Golgi membrane; integral to membrane Molecular Function: beta-tubulin binding; enzyme binding; FFAT motif binding; microtubule binding; protein binding; protein heterodimerization activity; protein homodimerization activity Biological Process: cellular calcium ion homeostasis; endoplasmic reticulum organization and biogenesis; ER to Golgi vesicle-mediated transport; negative regulation of viral protein levels in host cell; positive regulation of viral genome replication; sphingolipid biosynthetic process; unfolded protein response; unfolded protein response, activation of signaling protein activity; virus-host interaction Disease: Amyotrophic Lateral Sclerosis 8; Spinal Muscular Atrophy, Late-onset, Finkel Type

Research Articles on VAPB	**1.** Collectively, these results not only lead to a better understanding of hVAPB function but also point to potentially relevant targets for therapeutic intervention.
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