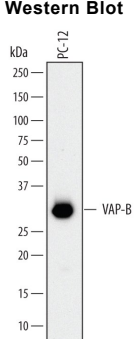
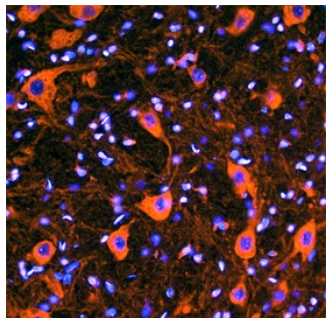


DESCRIPTION	
<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat VAP-B in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) VAP-B and approximately 50% cross-reactivity with rhVAP-A is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 699811
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant rat VAP-B Ala2-Pro132 Accession # Q9Z269
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS		
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.5 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

DATA	
<p><b>Western Blot</b></p>  <p><b>Detection of Rat VAP-B by Western Blot.</b> Western blot shows lysates of PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Rat VAP-B Monoclonal Antibody (Catalog # MAB7329) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for VAP-B at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>VAP-B in Rat Brain.</b> VAP-B was detected in perfusion fixed frozen sections of rat brain (medulla) using Mouse Anti-Rat VAP-B Monoclonal Antibody (Catalog # MAB7329) at 8 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to gigantocellular neurons. View our protocol for <a href="#">Fluorescent IHC Staining of Frozen Tissue Sections</a>.</p>

PREPARATION AND STORAGE	
<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

BACKGROUND
Vesicle-associated membrane protein (VAMP)-associated protein B (VAP-B; also VAMP-B) is an ~30 kDa ubiquitously expressed type IV transmembrane protein belonging to the VAP family. It is found in endoplasmic reticulum (ER), Golgi and other membranes as a homodimer or a heterodimer with VAP-A, probably associating through the transmembrane regions. Human VAP-B cDNA encodes a 222 amino acids (aa) cytoplasmic domain and a 21 aa C-terminal membrane anchor. Rat VAP-B shares 89% and 96% aa identity with mouse and human VAP-B, respectively. A soluble form can function as a ligand for EPH receptors. A human polymorphism of VAP-B, P56S, is found in three familial motor neuron diseases, notably the amyotrophic lateral sclerosis variant ALS8.