

DESCRIPTION

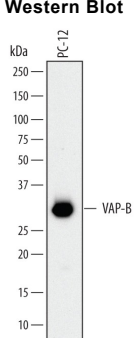
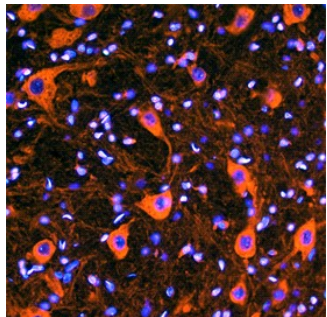
Species Reactivity	Rat
Specificity	Detects rat VAP-B in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) VAP-B and approximately 50% cross-reactivity with rhVAP-A is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 699811
Purification	Protein A or G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

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Rat VAP-B by Western Blot. 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>Immunohistochemistry</p>  <p>VAP-B in Rat Brain. 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 Fluorescent IHC Staining of Frozen Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.