

## DESCRIPTION

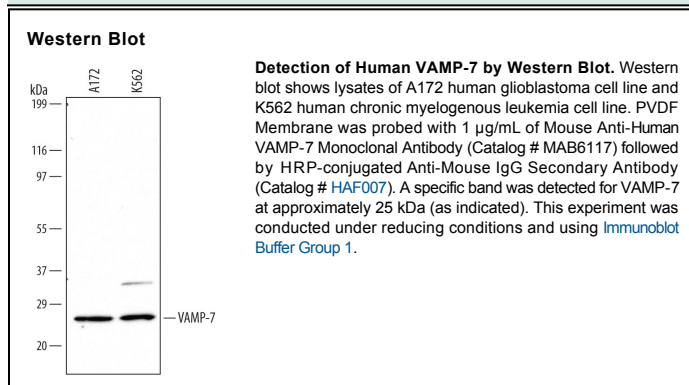
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human VAMP-7 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 549115
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human VAMP-7 Ala2-Met140 Accession # P51809
<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

**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
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	Immersion-fixed paraffin-embedded sections of human breast and human breast cancer tissue

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<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 7 (VAMP-7) is a 25 kDa, widely expressed, type IV transmembrane protein and member of the synaptobrevin family. Mature human VAMP-7 consists of a 187 aa cytoplasmic domain, a 21 aa transmembrane region, and an 11 aa vesicular region. The cytoplasmic domain contains a longin domain (aa 7-110) and a v-SNARE coiled-coil homology domain (aa 125-185). Two splicing variants produce three isoforms for human VAMP-7. Isoform 2 has a 116 aa substitution for aa 145-220 found in isoform 1, and isoform 3 is missing the residues corresponding to aa 28-68 in isoform 1. Human VAMP-7 shares 99%, 97%, and 95% aa sequence identity with bovine, mouse, and rat VAMP-7, respectively.