

## **Human VAMP-7 Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 549115 Catalog Number: MAB6117

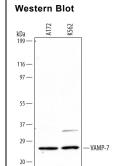
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human VAMP-7 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 549115
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human VAMP-7 Ala2-Met140 Accession # P51809
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	1 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	Immersion-fixed paraffin-embedded sections of human breast and human breast cancer tissue

## DATA



Detection of Human VAMP-7 by Western Blot. Western blot shows lysates of A172 human glioblastoma cell line and K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 1 μg/mL of Mouse Anti-Human VAMP-7 Monoclonal Antibody (Catalog # MAB6117) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for VAMP-7 at approximately 25 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

				AGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

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.

- 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 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.

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