

## DESCRIPTION

<b>Species Reactivity</b>	Human/Rat
<b>Specificity</b>	Detects human Annexin V in direct ELISAs and Western blots. Detects rat Annexin V in Simple Westerns™.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 39103
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Annexin V Met1-Asp320 Accession # P08758
<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 either lyophilized or as a 0.2 µm filtered solution in PBS.

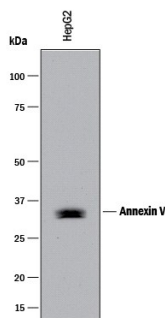
## APPLICATIONS

**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
<b>Western Blot</b>	0.25 µg/mL	See Below
<b>Simple Western</b>	2.5 µg/mL	See Below
<b>Knockout Validated</b>	Annexin V is specifically detected in HEK293T human embryonic kidney parental cell line but is not detectable in Annexin V knockout HEK293T cell line.	

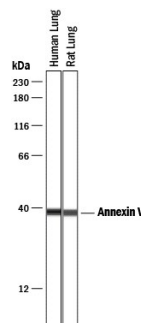
## DATA

### Western Blot



**Detection of Human Annexin V by Western Blot.** Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 0.25 µg/mL of Mouse Anti-Human Annexin V Monoclonal Antibody (Catalog # MAB399) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Annexin V at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

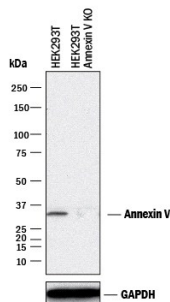
### Simple Western



**Detection of Human Annexin V by Simple Western™.** Simple Western lane view shows lysates of human lung tissue and rat lung tissue, loaded at 0.2 mg/mL. A specific band was detected for Annexin V at approximately 39 kDa (as indicated) using 2.5 µg/mL of Mouse Anti-Human/Rat Annexin V Monoclonal Antibody (Catalog # MAB399). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



### Knockout Validated



**Western Blot Shows Human Annexin V Specificity by Using Knockout Cell Line.** Western blot shows lysates of HEK293T human embryonic kidney parental cell line and Annexin V knockout HEK293T cell line (KO). PVDF membrane was probed with 0.25 µg/mL of Mouse Anti-Human/Rat Annexin V Monoclonal Antibody (Catalog # MAB399) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Annexin V at approximately 32 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in knockout HEK293T cell line. GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

## 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

Annexin V is a member of a calcium and phospholipid binding family of proteins with vascular anticoagulant activity. It is also known as PP4, PAP I, CPB-I, CaBP33, VACa, anchorin CII, lipocortin-V, endonexin II, and thromboplastin inhibitor.