

## DESCRIPTION

<b>Species Reactivity</b>	Viral
<b>Specificity</b>	Detects viral HIV-1 Gag p24 in direct ELISAs
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 1042942
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant viral HIV-1 Gag p24 Pro149-Gly354 Accession # Q77YG1_9HIV1
<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.

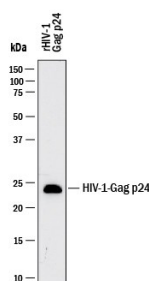
## APPLICATIONS

**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>	1 µg/mL	rHIV-1 Gag p24
<b>ELISA</b>	This antibody functions as an ELISA capture antibody when paired with mouse anti-HIV-1 Gag p24 Monoclonal Antibody (Catalog # <a href="#">MAB11188</a> ). This product is intended for assay development on various assay platforms requiring antibody pairs.	

## DATA

### Western Blot



**Detection of Recombinant HIV-1 Gag p24 HIV-1 Gag p24 by Western Blot.** Western blot shows lysates of rHIV-1 Gag p24. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Viral HIV-1 Gag p24 Monoclonal Antibody (Catalog # MAB11189) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # [HAF008](#)). A specific band was detected for HIV-1 Gag p24 at approximately 23 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot 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

The gag gene of human immunodeficiency virus 1 (HIV-1) encodes a precursor protein known as Pr55Gag. The viral protease PR cleaves this precursor to generate p17, p24, p7, and p6 proteins which are required for virus particle assembly. p24 is a major viral core structural protein. Its measurement is commonly used as an indicator of HIV-1 infection and viral load.