

DESCRIPTION

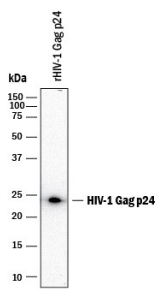
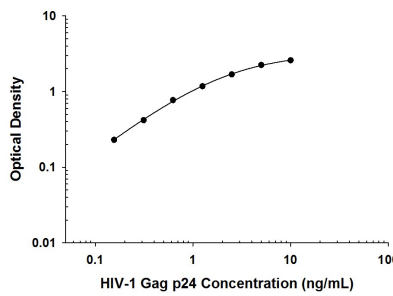
Species Reactivity	Viral
Specificity	Detects viral HIV-1 Gag p24 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 749122
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant viral HIV-1 Gag p24 Pro149-Gly354 Accession # Q77YG1_9HIV1
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	0.1 µg/mL	See Below
ELISA	This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Viral HIV-1 Gag p24 Monoclonal Antibody (Catalog # MAB73601). <i>This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the HIV-1 Gag p24 DuoSet ELISA Kit (Catalog # DY7360-05) for convenient development of a sandwich ELISA or the HIV-1 Gag p24 Quantikine ELISA Kit (Catalog # DHP240) for a complete optimized ELISA.</i>	

DATA

<p>Western Blot</p>  <p>Detection of HIV-1 Gag p24 by Western Blot. Western blot shows lysates of recombinant HIV-1 Gag p24. PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Viral HIV-1 Gag p24 Monoclonal Antibody (Catalog # MAB73602) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). 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 Immunoblot Buffer Group 1.</p>	<p>ELISA</p>  <p>Viral HIV-1 Gag p24 ELISA Standard Curve. Recombinant Viral HIV-1 Gag p24 protein was serially diluted 2-fold and captured by Mouse Anti-Viral HIV-1 Gag p24 Monoclonal Antibody (Catalog # MAB73601) coated on a Clear Polystyrene Microplate (Catalog # DY990). Mouse Anti-Viral HIV-1 Gag p24 Monoclonal Antibody (Catalog # MAB73602) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).</p>
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PREPARATION AND STORAGE

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. <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

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.