



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Anti-HIV-1 p24 Gag Monoclonal (#24-4)
<b>Catalog Number:</b>	6521
<b>Lot Number:</b>	140120
<b>Release Category:</b>	A
<b>Provided:</b>	510 µg affinity purified antibody, at 2.682 mg/mL in PBS (pH 7.4, 0.02% Sodium Azide). Add 190 µL of water to the vial to reconstitute back to 1x PBS.
<b>Description:</b>	An anti-HIV-1 p24 monoclonal antibody.
<b>Host:</b>	Balb/c mouse splenocyte x SP2/0 myeloma (non-EBV transformed).
<b>Titer:</b>	Purity is 95% by SDS-PAGE. ELISA titer against HIV-1 IIIB p24 lysate (50ng/well) is 1:100,000.
<b>Special Characteristics:</b>	<p><i>Immunogen:</i> Hexahistidine, amino-terminal tagged HIV-1 (HXB-3 isolate) p24 Gag protein, expressed in E. coli, purified under denaturing conditions by chelate-affinity chromatography and dialyzed into a phosphate/salt buffer (pH 10).</p> <p><i>Immunization:</i> 5 to 50 µg of immunogen was injected intraperitoneally per mouse as an emulsion with complete Freund's adjuvant. Subsequent booster immunizations (at least three) using incomplete Freund's adjuvant were also intraperitoneal and were administered every three weeks starting at week two. A final boost of immunogen in phosphate buffered saline was administered intravenously (tail vein) three days prior to removal of the spleen.</p> <p><i>Applications:</i> This antibody has been used successfully for Western blots, immunoprecipitation assays (HXB-3 and YU-2 isolates) and immunofluorescence assays. Its epitope has not been mapped.</p>
<b>Recommended Storage:</b>	Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**Contributor:** Dr. Michael H. Malim.

**Isotype:** IgG<sub>2</sub>β, κ.

**References:** Simon JH, Fouchier RA, Southerling TE, Guerra CB, Grant CK, Malim MH. The Vif and Gag proteins of human immunodeficiency virus type 1 colocalize in infected human T cells. *J Virol* **71**:5259-5267, 1997.

Fouchier RA, Meyer BE, Simon JH, Fischer U, Malim MH. HIV-1 infection of non-dividing cells: evidence that the amino-terminal basic region of the viral matrix protein is important for Gag processing but not for post-entry nuclear import. *EMBO J* **16**:4531-4539, 1997.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 p24 Gag Monoclonal (#24-4) from Dr. Michael H. Malim." Also include the references cited above in any publications.

**Last Updated** February 02, 2018

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