



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Anti-HIV-1 gp120 Monoclonal (F105)

Catalog Number: 857

Lot Number: 160077

Release Category: C

Provided: 100 µg of purified antibody at 1.5 mg/mL, dialyzed into PBS and sterile filtered.

Description: F105 binds to a discontinuous, or conformational, gp120 epitope.

Host: Human EBV-transformed B cell x HMMA2.11TG/O myeloma.

Titer: Use 2 µg of antibody per million cells in flow cytometry and immunofluorescence assays, and 1-10 µg/mL for neutralization assays. Other applications will vary with the requirements of the experimental system.

Special Characteristics: F105 binds to gp120 on the surface of IIIB, SF2, MN, RF, and CC-infected cells. It neutralizes SF2, IIIB, and MN infection at concentrations ranging from 140 ng/mL to 10 µg/mL.

Purified by Protein G chromatography from tissue culture supernatant and quantitated by ELISA.

Endotoxin: 340 EU/mL, Lot 160077

If lower endotoxin is required for the user's needs please request Lot No. 150350 in the abstract of your order.

*NOTE: Endotoxin has been shown to induce chemokines and other soluble HIV and SIV inhibitory factors in primary cultures of PBMC, monocytes and macrophages (Verani et al., J Exp Med 185:805-816, 1997; J Immunol 168:6388-6396, 2002; Montefiori in preparation). Thus, caution is advised when using this reagent for in vitro studies involving primary cells.

Immunoreactivity is confirmed by ELISA and purity is assessed by SDS-PAGE analysis.

[Click Here for Datasheet and ELISA Data](#)

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.

[CLICK HERE FOR PURITY and ELISA DATA.](#)

Recommended Storage: Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: Dr. Marshall Posner and Dr. Lisa Cavacini.

Isotype: IgG₁, kappa.

References:

Cavacini, L. A., Emes, C. L., Power, J., Buchbinder, A., Zolla-Pazner, S., & Posner, M. R. (1993). Human monoclonal antibodies to the V3 loop of HIV-1 gp120 mediate variable and distinct effects on binding and viral neutralization by a human monoclonal antibody to the CD4 binding site. *J Acquir Immune Defic Syndr*, 6(4), 353-358. [PUBMED](#)

Posner, M. R., Cavacini, L. A., Emes, C. L., Power, J., & Byrn, R. (1993). Neutralization of HIV-1 by F105, a human monoclonal antibody to the CD4 binding site of gp120. *J Acquir Immune Defic Syndr*, 6(1), 7-14. [PUBMED](#)

Posner, M. R., Elboim, H., & Santos, D. (1987). The construction and use of a human-mouse myeloma analogue suitable for the routine production of hybridomas secreting human monoclonal antibodies. *Hybridoma*, 6(6), 611-625. doi:10.1089/hyb.1987.6.611 [PUBMED](#)

Posner, M. R., Hideshima, T., Cannon, T., Mukherjee, M., Mayer, K. H., & Byrn, R. A. (1991). An IgG human monoclonal antibody that reacts with HIV-1/GP120, inhibits virus binding to cells, and neutralizes infection. *J Immunol*, 146(12), 4325-4332. [PUBMED](#)

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Anti-HIV-1 gp120 Monoclonal (F105) from Dr. Marshall Posner and Dr. Lisa Cavacini." Also include the references cited above in any publications.

US Patent No. 5215913. Requests from commercial organizations should be directed to Michael Legregni, JD, Technology Ventures Office, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, BR2, Boston, MA 02215. Email: mlegregni@bidmc.harvard.edu.

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