



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	Anti-HIV-1 gp120 Monoclonal (IgG1 b12)
Catalog Number:	2640
Lot Number:	180012
Release Category:	E
Provided:	100 µg of purified antibody at 9.6 mg/mL in PBS, pH 7.4 Endotoxin = 0 EU/mL
Description:	A recombinant monoclonal antibody to HIV-1 gp120, specifically to the CD4 binding site
Host:	Human
Titer:	The user should determine the optimal concentration for any application.
Special Characteristics:	<p>This recombinant antibody was produced in a CHO cell expression system and purified by Protein A chromatography. It originated as a Fab fragment from a Fab phage display library prepared from the bone marrow of a long term asymptomatic HIV-1 seropositive donor. It was obtained by selection against a HIV-1 IIIB gp120 recombinant protein and then constructed and expressed as a whole antibody.</p> <p>Please see the LANL HIV Molecular Database for more information.</p> <p>Click here for Purity Data.</p> <p>Click here for Neutralization Data.</p>
Recommended Storage:	Keep the reagent at 4°C for short term storage and at -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
Contributor:	Dr. Dennis Burton and Carlos Barbas

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.

Isotype: IgG₁ κ

References:

Barbas, C. F., 3rd, Bjorling, E., Chiodi, F., Dunlop, N., Cababa, D., Jones, T. M., . . . et al. (1992). Recombinant human Fab fragments neutralize human type 1 immunodeficiency virus in vitro. *Proc Natl Acad Sci U S A*, 89(19), 9339-9343. [PUBMED](#)

Burton, D. R., Barbas, C. F., 3rd, Persson, M. A., Koenig, S., Chanock, R. M., & Lerner, R. A. (1991). A large array of human monoclonal antibodies to type 1 human immunodeficiency virus from combinatorial libraries of asymptomatic seropositive individuals. *Proc Natl Acad Sci U S A*, 88(22), 10134-10137. [PUBMED](#)

Burton, D. R., Pyati, J., Koduri, R., Sharp, S. J., Thornton, G. B., Parren, P. W., . . . et al. (1994). Efficient neutralization of primary isolates of HIV-1 by a recombinant human monoclonal antibody. *Science*, 266(5187), 1024-1027. [PUBMED](#)

Roben, P., Moore, J. P., Thali, M., Sodroski, J., Barbas, C. F., 3rd, & Burton, D. R. (1994). Recognition properties of a panel of human recombinant Fab fragments to the CD4 binding site of gp120 that show differing abilities to neutralize human immunodeficiency virus type 1. *J Virol*, 68(8), 4821-4828. [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 (IgG1 b12) from Dr. Dennis Burton and Carlos Barbas." Also include the references cited above in any publications.

Requests from commercial organizations should be directed to Dr. Dennis Burton, The Scripps Research Institute, Department of Immunology, 10666 North Torrey Pines Road, La Jolla, CA 92037.

Recipient must not use or incorporate the reagent for commercial purposes.

Last Updated November 12, 2020

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