



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Anti-HIV-1 gp120 Monoclonal (IgG1 b12)

Catalog Number: 2640

Lot Number: 110219

Release Category: E

Provided: 100 µg purified antibody in PBS at 1 mg/ml

Description: Obtained as a Fab fragment by selection against IIIB gp120 from an antibody phage display library prepared from bone marrow of a long term asymptomatic HIV-1 seropositive donor. IgG1 b12 was then expressed as a whole antibody in CHO cells in tissue culture.

Special Characteristics: Maps to the gp120 CD4 binding site. Protein A purified.

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. Dennis Burton and Carlos Barbas.

Isotype: IgG₁, κ chain.

References: Burton DR, Barbas CF, Persson MAA, Koenig S, Chanock RM, Lerner RA. A large array of human monoclonal antibodies to HIV-1 from combinatorial libraries of asymptomatic seropositive individuals. *Proc Natl Acad Sci USA* **88**:10134-10137, 1991.

Barbas CF III, Björling E, Chiodi F, Dunlop N, Cababa D, Jones TM, Zebedee SL, Persson MAA, Nara PL, Norrby E, Burton DR. Recombinant human Fab fragments neutralize human type 1 immunodeficiency virus in vitro. *Proc Natl Acad Sci USA* **89**:9339-9343, 1992.

Roben P, Moore JP, Thali M, Sodroski J, Barbas CF III, Burton DR. 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.

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.

Burton DR, Pyati J, Koduri R, Sharp SJ, Thornton GB, Parren PW, Sawyer LSW, Hendry RM, Dunlop N, Nara PL, Lamacchia M, Garratty E, Steihm ER, Bryson YJ, Cao Y, Moore JP, Ho DD, Barbas CF III. Efficient neutralization of primary isolates of HIV-1 by a recombinant human monoclonal antibody. *Science* **266**:1024-1027, 1994.

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

August 10, 2015

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