



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Anti-HIV-1 gp120 Monoclonal (2G12)

Catalog Number: 1476

Lot Number: 160035

Release Category: A

Provided: 250 µg of purified antibody at 2 mg/mL in 2 mM acetic acid, 10% maltose (sterile and does not contain preservatives)

Description: A recombinant monoclonal antibody to HIV-1 gp120

Host: Human

Titer: The user should determine the optimal concentration for any application.

Special Characteristics: This antibody was produced in a recombinant CHO cell expression system and purified by protein A affinity chromatography. This antibody originates from a HIV-1 positive human donor. Please see the [LANL HIV Molecular Database](#) for more information.

This antibody neutralizes a broad variety of SHIV variants and HIV-1 laboratory strains and primary isolates. The epitope is conformational and carbohydrate-dependent. It is directed against N-linked glycans in the C2, C3, V4, and C4 domains of gp120.

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: DAIDS, NIAID (Produced by Polymun Scientific)

Isotype: IgG₁ κ

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.

References:

- Buchacher, A., Predl, R., Strutzenberger, K., Steinfellner, W., Trkola, A., Purtscher, M., . . . et al. (1994). Generation of human monoclonal antibodies against HIV-1 proteins; electrofusion and Epstein-Barr virus transformation for peripheral blood lymphocyte immortalization. *AIDS Res Hum Retroviruses*, 10(4), 359-369. doi:10.1089/aid.1994.10.359 [PUBMED](#)
- Crawford, J. M., Earl, P. L., Moss, B., Reimann, K. A., Wyand, M. S., Manson, K. H., . . . Montefiori, D. C. (1999). Characterization of primary isolate-like variants of simian-human immunodeficiency virus. *J Virol*, 73(12), 10199-10207. [PUBMED](#)
- Etemad-Moghadam, B., Sun, Y., Nicholson, E. K., Karlsson, G. B., Schenten, D., & Sodroski, J. (1999). Determinants of neutralization resistance in the envelope glycoproteins of a simian-human immunodeficiency virus passaged in vivo. *J Virol*, 73(10), 8873-8879. [PUBMED](#)
- Mascola, J. R., Lewis, M. G., Stiegler, G., Harris, D., VanCott, T. C., Hayes, D., . . . Birx, D. L. (1999). Protection of Macaques against pathogenic simian/human immunodeficiency virus 89.6PD by passive transfer of neutralizing antibodies. *J Virol*, 73(5), 4009-4018. [PUBMED](#)
- Trkola, A., Purtscher, M., Muster, T., Ballaun, C., Buchacher, A., Sullivan, N., . . . Katinger, H. (1996). Human monoclonal antibody 2G12 defines a distinctive neutralization epitope on the gp120 glycoprotein of human immunodeficiency virus type 1. *J Virol*, 70(2), 1100-1108. [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 (2G12) from Polymun Scientific." Also include the references cited above in any publications.

Last Updated

June 13, 2017

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