



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: Anti-HIV-1 gp120 Monoclonal (2909)

Catalog Number: 12141

Lot Number: 110154

Release Category: E

Provided: 10 μ L purified antibody, 4.78 μ g/ μ L, in PBS buffer.

Description: HIV-1 human antibody (2909), specific for the V2V3 quaternary neutralizing epitope (QNE), purified using protein A chromatography.

Host: Human, EBV-transformed cells fused with heteromyeloma SHM-D33 cells.

Special Characteristics: This antibody is directed against the V2V3 quaternary neutralizing epitope. This antibody potentially neutralizes SF162 virus (≤ 1.0 μ g/ml). Not cross-reactive.

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. Susan Zolla-Pazner

Isotype: IgG1 λ chain

References: Gorny, MK, Stamatatos, L, Volsky, B, Revesz, K, Williams, C, Wang, X-H, Cohen, S, Staudinger, R, Zolla-Pazner, S. Identification of a New Quaternary Neutralizing Epitope of Human Immunodeficiency Virus type I Virus Particles. *J. Virol.* 2005 **79**: 5232-5237.

Honnen, WJ, Krachmarov, C, Kayman, SC, Gorny, MK, and Zolla-Pazner, S. Type-Specific Epitopes Targeted by Monoclonal Antibodies with Exceptionally Potent Neutralizing Activities for Selected Strains of HIV-1 Map to a Common Region of the V2 Domain of gp120 and Differ only at a Single Position from the Clade B consensus J *Virol.* 2007 **81**: 1424-1432.

Spurrier, B, Sampson, J, Totrov, M, Li, H, O'Neal, T, Williams, C, Robinson, J, Gorny,

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.

Wu, X, Zolla-Pazner, S, Kong, X-P. Structural Analysis and Computational Modeling of Human and Macaque Monoclonal Antibodies Provide a Model for the Quaternary Neutralizing Epitope of HIV-1 gp120. Structure 2011 **19**:621-699.

Wu, X, Changela, A, O'Dell, S, Schmidt, SD, Pancera, M, Yang, Y, Zhang, B, Gorny, MK, Phogat, S, Robinson, JE, Stamatatos, L, Zolla-Pazner, S, Kwong, PD, and Mascola, JR. Immunotypes of a Quaternary Site of HIV-1 Vulnerability and Their Recognition by Antibodies. J. Virol. 2011 **85**:4578-4585.

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 (2909) Cat #12141 from Dr. Susan Zolla-Pazner." Also include the reference cited above in any publications.

Requests from commercial organizations must be directed in writing to Dr. Susan Zolla-Pazner at the Veterans Administration Medical Center, 423 East 23rd St., New York, NY 10010.

PLEASE NOTE: The contributor has requested to be informed at least two weeks before submitting a document for publication or making a public oral presentation of research results obtained from the use of this material, in writing or by providing a copy of the publication document.

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

Last Updated

December 08, 2015

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