



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Anti-HIV-1 gp120 Monoclonal (2909)
<b>Catalog Number:</b>	12141
<b>Lot Number:</b>	120061
<b>Release Category:</b>	E
<b>Provided:</b>	100 µg purified antibody, 3.47 µg/µL, in PBS buffer.
<b>Description:</b>	HIV-1 human antibody (2909), specific for the V2V3 quaternary neutralizing epitope (QNE), purified using protein A chromatography.
<b>Host:</b>	Human, EBV-transformed cells fused with heteromyeloma SHM-D33 cells.
<b>Special Characteristics:</b>	This antibody is directed against the V2V3 quaternary neutralizing epitope. This antibody potentially neutralizes SF162 virus ( $\leq 1.0$ µg/ml). Not cross-reactive.
<b>Recommended Storage:</b>	Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
<b>Contributor:</b>	Dr. Susan Zolla-Pazner
<b>Isotype:</b>	IgG1 λ chain
<b>References:</b>	<p>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. <i>J. Virol.</i> 2005 <b>79</b>: 5232-5237.</p> <p>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 <i>Virol.</i> 2007 <b>81</b>: 1424-1432.</p> <p>Spurrier, B, Sampson, J, Totrov, M, Li, H, O'Neal, T, Williams, C, Robinson, J, Gorny,</p>

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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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