DATA SHEET

For research use only. Not for use in humans.

Reagent: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 Protein (2909)

Catalog Number: ARP-12141

Lot Number: 160080

Release Category: E

Provided: Each vial of ARP-12141 contains approximately 100 micrograms of purified antibody in phosphate-buffered saline (PBS) at a concentration of 4.16 milligrams per milliliter.

Description: ARP-12141 is a monoclonal antibody to HIV-1 gp120 protein, specific for the V2V3 quaternary neutralizing epitope (QNE).

Host or Host Site: Human, Epstein-Barr virus (EBV)-transformed cells fused to SHM-D33 heteromyeloma cells

Special Characteristics: This antibody was derived by EBV transformation of cells and is directed against the V2V3 QNE. This antibody potently neutralizes the SF162 virus and is not cross-reactive.

Recommended Storage: Keep at 4°C only 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, lambda

References:

Gorny, M. K., et al. "Identification of a New Quaternary Neutralizing Epitope of Human Immunodeficiency Virus Type I Virus Particles." J. Virol. 79 (2005): 5232-5237. PubMed: 15795308.

Honnen, W. J., et al. "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. 81 (2007): 1424-1432. PubMed: 17121806.

Spurrier, B., et al. "Structural Analysis of Human and Macaque mAbs 2909 and 2.5B: Implications for the Configuration of the Quaternary Neutralizing Epitope of HIV-1 gp120." Structure 19 (2011): 691-699. PubMed: 21565703.

Wu, X., et al. "Immunotypes of a Quaternary Site of HIV-1 Vulnerability and Their Recognition by Antibodies." J. Virol. 85 (2011): 4578-4585. PubMed: 21325411.

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 Protein (2909), ARP-12141, contributed by Dr. Susan Zolla-Pazner." Also include the references cited in any publications.

Biosafety Level: 1 Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

NIH HIV Reagent Program
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Note:

Corporate requests should be directed in writing to Dr. Susan Zolla-Pazner at the Icahn School of Medicine at Mount Sinai, One Gustave L. Levy Place, Box 1090, New York, NY 10029.

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.

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