DATA SHEET

For research use only. Not for use in humans.

Reagent: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 Protein, Clone 17b (produced *in vitro*)

Catalog Number: ARP-4091

Lot Number: 170396

Release Category: A

Provided: Each vial of ARP-4091 contains approximately 500 micrograms of affinity purified antibody in PBS, pH 7.2 at a concentration of 10 mg per mL. Purity is approximately 95% as determined by SDS-PAGE analysis. Endotoxin content is 1.0 EU per mg.

Description: ARP-4091 is a monoclonal antibody to HIV-1 gp120 protein. Clone 17b is a non-neutralizing antibody that binds to a CD4-induced (CD4i) discontinuous epitope on gp120.

Host or Host Site: Human

Special Characteristics: ARP-4091 was obtained by Epstein-Barr virus transformation of B cells from peripheral blood mononuclear cells (PBMCs) of an asymptomatic HIV-1 infected individual.

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: James E. Robinson

Isotype: IgG1

References:

Thali, M., et al. "Characterization of Conserved Human Immunodeficiency Virus Type 1 gp120 Neutralization Epitopes Exposed upon gp120-CD4 Binding." J. Virol. 67 (1993): 3978-3988. PubMed: 7685405.

Wyatt, R., et al. "Involvement of the V1/V2 Variable Loop Structure in the Exposure of Human Immunodeficiency Virus Type 1 gp120 Epitopes Induced by Receptor Binding." J. Virol. 69 (1995): 5723-5733. PubMed: 7543586.

Trkola, A., et al. "CD4-Dependent, Antibody-Sensitive Interactions Between HIV-1 and its Co-Receptor CCR-5." Nature 384 (1996): 184-187. PubMed: 8906796.

Sullivan, N., et al. "CD4-Induced Conformational Changes in the Human Immunodeficiency Virus Type 1 gp120 Glycoprotein: Consequences for Virus Entry and Neutralization." J. Virol. 72 (1998): 4694-4703. PubMed: 9573233.

Wyatt, R., et al. "The Antigenic Structure of the HIV gp120 Envelope Glycoprotein." Nature 393 (1998): 705-711. PubMed: 96411684.

Kwong, P. D., et al. "Structure of an HIV gp120 Envelope Glycoprotein in Complex with the CD4 Receptor and a Neutralizing Human Antibody." Nature 393 (1998): 648-659. PubMed: 9641677.

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, Clone 17b (produced *in vitro*), ARP-4091, contributed by Dr. James E. Robinson."

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.

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