DATA SHEET

For research use only. Not for use in humans.

Reagent: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 (39F)

Catalog Number: ARP-11437

Lot Number: 200008

Release Category: C

Provided: Each vial of ARP-11437 contains approximately 500 micrograms of purified antibody at a concentration of 1 milligram per milliliter in phosphate-buffered saline (PBS). Purity was > 95% as determined by SDS-PAGE analysis. Endotoxin content was < 0.5 EU per milligram.

Description: ARP-11437 is a monoclonal antibody to HIV-1 gp120 (39F) protein. This antibody was derived by Epstein-Barr virus (EBV) transformation of B cells from peripheral blood mononuclear cells (PBMCs) of an HIV-1 infected patient.

Host or Host Site: Human EBV transformed B cell fused with HMMA2.11TG/O heteromyeloma

Special Characteristics: The human EBV-transformed B cells were fused to HMMA2.11TG/O heteromyeloma. It binds to a linear epitope involving the N-terminal side of the V3 loop and neutralizes a small proportion of HIV-1 Clade B primary isolates.

Suggested applications are ELISA, western blot analysis, flow cytometry, immunohistochemistry and immunoprecipitation assays. The user should determine the optimal concentration for any application.

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. James E. Robinson

Isotype: IgG1

References:

Kwong, P. D., et al. "HIV-1 Evades Antibody-Mediated Neutralization Through Conformational Masking of Receptor-Binding Sites." Nature 420 (2002): 678-682. PubMed: 12478295.

Pantophlet, R., I. A. Wilson and D. R. Burton. "Improved Design of an Antigen with Enhanced Specificity for the Broadly HIV-Neutralizing Antibody b12." Protein Eng. Des. Sel. 17 (2004): 749-758. PubMed: 15542540.

Citations: 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 (39F), ARP-11437, contributed by Dr. James E. Robinson." 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.

Disclaimers: You are authorized to use this product for research use only. It is not intended for use in humans.

NIH HIV Reagent Program
www.hivreagentprogram.org

E-mail: contact@HIVReagentProgram.org
Tel: 888-487-0727
Fax: 703-365-2898

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Note:

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. James E. Robinson, Tulane University HSC at email address jrobinso@tulane.edu and specify in the email the name of the reagent and a description of the intended use of the reagent.

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