DATA SHEET

For research use only. Not for use in humans.

Reagent: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 Protein (654-30D)

Catalog Number: ARP-7369

Lot Number: 160069

Release Category: E

Provided: Each vial of ARP-7369 contains approximately 100 micrograms of purified antibody in phosphate-buffered saline (PBS) at a concentration of 2.43 mg/mL.

Description: ARP-7369 is a monoclonal antibody that recognizes a discontinuous epitope on gp120 and its binding depends on the tertiary protein structure and intact carbohydrates. The epitope, though infrequently detected, is expressed on cells infected with various clades.

Host or Host Site: Human (EBV transformed B cell fused with heteromyeloma SHM-D33)

Special Characteristics: Monoclonal antibody 654-30D blocks binding of soluble CD4 to recombinant $gp120_{IIIB}$ and neutralizes laboratory isolates IIIB and primary isolate BZ167 at 2 µg/mL. It is specific for CD4bd region of gp120.

Recommended Storage: Keep at 4°C only for short-term and -80°C for long-term storage. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: Dr. Susan Zolla-Pazner

Isotype: IgG_1

References:

Gorny, M. K., et al. "Human Anti-V2 Monoclonal Antibody that Neutralizes Primary but Not Laboratory Isolates of Human Immunodeficiency Virus Type 1." J. Virol. 68 (1994): 8312-8320. PubMed: 7525987.

Zolla-Pazner, S., et al. "Serotyping of Primary Human Immunodeficiency Virus Type 1 Isolates from Diverse Geographic Locations by Flow Cytometry." J. Virol. 69 (1995): 3807-3815. PubMed: 7745728.

Laal, S., et al. "Synergistic Neutralization of Human Immunodeficiency Virus Type 1 by Combinations of Human Monoclonal Antibodies." J. Virol. 68 (1994): 4001-4008. PubMed: 7514683.

Hioe, C. E., et al. "Neutralization of HIV-1 Primary Isolates by Polyclonal and Monoclonal Human Antibodies." Int. Immunol. 9 (1997): 1281-1290. PubMed: 9310831.

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 (654-30D), ARP-7369, 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. 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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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

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