DATA SHEET

For research use only. Not for use in humans.

Reagent: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 (2G12)

Catalog Number: ARP-1476

Lot Number: 180138

Release Category: A

Provided: Each vial of ARP-1476 contains approximately 250 micrograms of purified antibody in sterile 2 mM acetic acid containing 10% maltose at a concentration of 2 mg per mL. No preservatives were added.

Description: ARP-1476 is a recombinant monoclonal antibody to HIV-1 gp120.

Host or Host Site: Human

Special Characteristics: This antibody was produced in a recombinant Chinese Hamster Ovary (CHO) cell expression system and purified by Protein A affinity chromatography. This antibody originates from an HIV-1 positive human donor.

This antibody neutralizes a broad variety of SHIV variants, HIV-1 laboratory strains and primary isolates. The epitope is conformational and carbohydrate dependent. It is directed against N-linked glycans in the C2, C3, V4, and C4 domains of gp120.

Please see the LANL HIV Molecular Database for more information.

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: Division of AIDS, NIAID (Produced by Polymun Scientific)

Isotype: IgG1κ

References:

Buchacher, A., et al. "Generation of Human Monoclonal Antibodies Against HIV-1 Proteins; Electrofusion and Epstein-Barr Virus Transformation for Peripheral Blood Lymphocyte Immortalization." AIDS Res. Hum. Retroviruses 10 (1994): 359-369. doi:10.1089/aid.1994.10.359. PubMed: 7520721.

Crawford, J. M., et al. "Characterization of Primary Isolate-Like Variants of Simian-Human Immunodeficiency Virus." J. Virol. 73 (1999): 10199-10207. PubMed: 10559336.

Etemad-Moghadam, B., et al. "Determinants of Neutralization Resistance in the Envelope Glycoproteins of a Simian-Human Immunodeficiency Virus Passaged *in vivo*." J. Virol. 73 (1999): 8873-8879. PubMed: 10482646.

Mascola, J. R., et al. "Protection of Macaques against Pathogenic Simian/Human Immunodeficiency Virus 89.6PD by Passive Transfer of Neutralizing Antibodies." J. Virol. 73 (1999): 4009-4018. PubMed: 10196297.

Trkola, A., et al. "Human Monoclonal Antibody 2G12 Defines a Distinctive Neutralization Epitope on the gp120 Glycoprotein of Human Immunodeficiency Virus Type 1." J. Virol. 70 (1996): 1100-1108. PubMed: 8551569.

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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 (2G12), ARP-1476, contributed by Division of AIDS, NIAID." 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.

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