DATA SHEET

For research use only. Not for use in humans.

Reagent: Monoclonal Anti-Human Immunodeficiency Virus (HIV)-1 gp120 Protein (VRC01, produced *in vitro*)

Catalog Number: ARP-12033

Lot Number: 180233

Release Category: C

Provided: Each vial of ARP-12033 contains approximately 500 micrograms of purified antibody at a concentration of 1 milligram per milliliter in PBS, pH 7.2. Endotoxin content is 0.2 EU per milligram. Purity is approximately 95% by densitometric analysis of the Coomassie Blue-stained SDS-PAGE gel under non-reducing conditions.

Description: ARP-12033 is a recombinant monoclonal antibody to HIV-1 gp120, specifically the CD4-binding site.

Host: Human

Titer: Serological reactivity measured by indirect ELISA against purified recombinant HIV-1 BaL gp120 protein (ARP-4961) estimated a titer of 1:512,000.

Special Characteristics: This recombinant antibody was produced in a 293-6E expression system and purified by protein A affinity resin chromatography. This antibody originates from the B-cells of a HIV-1 infected donor. VRC01 neutralizes a broad variety of laboratory HIV-1 strains and primary isolates and is active against all major subtypes. Suggested working dilutions are 5 micrograms per milliliter for ELISA and 10 micrograms per milliliter for HIV-1 neutralization.

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: Xueling Wu, Zhi-Yong Yang, Yuxing Li, Gary Nabel, John Mascola

Isotype: IgG1, kappa

References: Wu, X., et al. “Rational Design of Envelope Identifies Broadly Neutralizing Human Monoclonal Antibodies to HIV-1.” Science 329 (2010): 856-861. PubMed: 20616233.

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 (HIV)-1 gp120 Protein (VRC01, produced *in vitro*), ARP-12033, contributed by Dr. John Mascola.” Also include the reference 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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