b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

DATA SHEET

For research use only. Not for use in humans.

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

Catalog Number: ARP-12033

Lot Number: 200208

Provided: Each vial of ARP-12033 contains approximately 500 µg of purified antibody at a concentration of 1.05 mg/mL in PBS, pH 7.2. Endotoxin content is 0.1 EU/mg. 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

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 µg/mL for ELISA and 10 µg/mL for HIV-1 neutralization.

Titer: 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: Xueling Wu, Zhi-Yong Yang, Yuxing Li, Gary Nabel and 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 BEI Resources, NIAID, NIH: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 Protein (VRC01, produced *in vitro*), ARP-12033.”

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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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