



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Monoclonal Anti-Human Immunodeficiency Virus (HIV)-1 gp120 Protein (VRC01, produced <i>in vitro</i>)
Catalog Number:	ARP-12033
Lot Number:	180235
Release Category:	C
Provided:	Each vial of ARP-12033 contains approximately 500 micrograms of purified antibody at a concentration of 1 mg/mL 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 µg/mL for ELISA and 10 µg/mL 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 and John Mascola
Isotype:	IgG1, kappa
References:	Wu, X., et al. "Rational Design of Envelope Identifies Broadly Neutralizing Human Monoclonal Antibodies to HIV-1." <i>Science</i> 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 <i>in vitro</i>), 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.
Disclaimers:	You are authorized to use this product for research use only. It is not intended for human use. Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org .



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