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:	170049
Release Category:	C
Provided:	Each vial of ARP-12033 contains approximately 100 micrograms of purified antibody at a concentration of 0.66 milligrams per milliliter in PBS, pH 7.2. Endotoxin content is 0.2 EU per milligram. Purity is approximately 95%.
Description:	ARP-12033 is a recombinant monoclonal antibody to HIV-1 gp120, specifically the CD4-binding site.
Host:	Human
Titer:	The user should determine the optimal concentration for any application.
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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