

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 <i>in vitro</i>)
Catalog Number:	ARP-12033
Lot Number:	180236
Provided:	Each vial of ARP-12033 contains approximately 500 µg of purified antibody at a concentration of 1 mg/mL in PBS, pH 7.2. Endotoxin content is 0.2 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:	Serological reactivity measured by indirect ELISA against purified recombinant HIV-1 BaL gp120 protein (ARP-4961) estimated a titer of 1:512,000.
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 BEI Resources, NIAID, NIH: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp120 Protein (VRC01, produced <i>in vitro</i>), 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) . 6th ed. Washington, DC: U.S. Government Printing Office, 2020.
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