



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Anti-HIV-1 gp120 Monoclonal (VRC01)
<b>Catalog Number:</b>	12033
<b>Lot Number:</b>	150013
<b>Release Category:</b>	C
<b>Provided:</b>	500 µg of purified antibody at 3 mg/mL in PBS, pH 7.2 Purity: ~95% Endotoxin Level: < 10 EU/mg
<b>Description:</b>	A recombinant monoclonal antibody to HIV-1 gp120, specifically the CD4-binding site
<b>Host:</b>	Human
<b>Titer:</b>	The user should determine the optimal concentration for any application.
<b>Special Characteristics:</b>	This recombinant antibody was produced in a 293-6E expression system and purified by Protein A sepharose column 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.
<b>Recommended Storage:</b>	Keep the reagent at 4°C for short term storage and at -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
<b>Contributor:</b>	Xueling Wu, Zhi-Yong Yang, Yuxing Li, Gary Nabel, John Mascola
<b>Isotype:</b>	IgG <sub>1</sub> κ

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**References:**

Wu, X., Yang, Z. Y., Li, Y., Hogerkorp, C. M., Schief, W. R., Seaman, M. S., . . . Mascola, J. R. (2010). Rational design of envelope identifies broadly neutralizing human monoclonal antibodies to HIV-1. *Science*, 329(5993), 856-861. doi:10.1126/science.1187659 [PUBMED](#)

**NOTE:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Anti-HIV-1 gp120 Monoclonal (VRC01), from Dr. John Mascola." Also include the reference cited above in any publications.

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact: The Office of Technology Development, NIAID, 6610 Rockledge Drive, Suite 2800, MSC 6606, Bethesda, MD, 20892-6606, Tel: 301-496-2644, Fax: 301-402-7123, before the reagent can be released.**

**Patent Pending**

**Last Updated**

April 14, 2017

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