



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Anti-HIV-1 gp160 Monoclonal (N6/PGDM1400x10E8)
<b>Catalog Number:</b>	13390
<b>Lot Number:</b>	180129
<b>Release Category:</b>	E
<b>Provided:</b>	100 µg of purified antibody at 1 mg/mL in PBS pH 7.4 (does not contain preservatives) Endotoxin = <0.1 EU/mg Purity = 95% by SDS-PAGE
<b>Description:</b>	A recombinant monoclonal antibody to HIV-1 gp160. This trispesific antibody recognizes three epitopes on HIV-1 gp160: N6 (CD4BS), PGDM1400 (V1V2 apex), 10E8 (MPER).
<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 HEK293 expression system and purified by Protein A chromatography.  This antibody exhibits broad and potent neutralizing activity against global circulating HIV-1 strains.  <a href="#">Click here for additional QC data for this anti-HIV-1 gp160 monoclonal antibody (N6/PGDM1400x10E8).</a>  Applications: ELISA, Neutralization assays
<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>	Drs. Ling Xu and Gary Nabel

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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.

**Isotype:** IgG<sub>1</sub>

**References:**

Huang, J., Ofek, G., Laub, L., Louder, M. K., Doria-Rose, N. A., Longo, N. S., . . . Connors, M. (2012). Broad and potent neutralization of HIV-1 by a gp41-specific human antibody. *Nature*, 491(7424), 406-412. doi:10.1038/nature11544 [PUBMED](#)

Kwon, Y. D., Georgiev, I. S., Ofek, G., Zhang, B., Asokan, M., Bailer, R. T., . . . Kwong, P. D. (2016). Optimization of the Solubility of HIV-1-Neutralizing Antibody 10E8 through Somatic Variation and Structure-Based Design. *J Virol*, 90(13), 5899-5914. doi:10.1128/JVI.03246-15 [PUBMED](#)

Sok, D., van Gils, M. J., Pauthner, M., Julien, J. P., Saye-Francisco, K. L., Hsueh, J., . . . Burton, D. R. (2014). Recombinant HIV envelope trimer selects for quaternary-dependent antibodies targeting the trimer apex. *Proc Natl Acad Sci U S A*, 111(49), 17624-17629. doi:10.1073/pnas.1415789111 [PUBMED](#)

Xu, L., Pegu, A., Rao, E., Doria-Rose, N., Beninga, J., McKee, K., . . . Nabel, G. J. (2017). Trispecific broadly neutralizing HIV antibodies mediate potent SHIV protection in macaques. *Science*, 358(6359), 85-90. doi:10.1126/science.aan8630 [PUBMED](#)

Zhou, T., Georgiev, I., Wu, X., Yang, Z. Y., Dai, K., Finzi, A., . . . Kwong, P. D. (2010). Structural basis for broad and potent neutralization of HIV-1 by antibody VRC01. *Science*, 329(5993), 811-817. doi:10.1126/science.1192819 [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 gp160 Monoclonal (N6/PGDM1400x10E8) from Drs. Ling Xu and Gary Nabel (cat# 13390)." Also include the references cited above in any publications.

**Last Updated** May 18, 2018

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