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DATA SHEET

Reagent:	Anti-HIV-1 gp120 Monoclonal (NIH45-46 G54W)
Catalog Number:	12174
Lot Number:	160101
Release Category:	E
Provided:	500 µg of purified antibody (100 µl at 5 mg/mL) Buffer: DPBS, 20% glycerol, pH 7.2 Endotoxin= 0.2 EU/mg
Description:	This antibody is an anti-gp120 CD4 binding site monoclonal. It is a clonal variant of the mAb VRC01 (reagent #12033) isolated from the same donor. NIH45-46 was obtained using a YU2 trimer as opposed to a resurfaced gp120 core, which was used to isolate VRC01 and VRC03 (reagent #12032).
Special Characteristics:	NIH45-46 was more potent than VRC01 in TZM-bl neutralization assays. For more information, please see the reference. Purified from HEK 293-6E expression via Protein A column. Sterile filtered
Recommended Storage:	Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
Contributor:	Dr. Pamela Bjorkman
Isotype:	IgG1
References:	Diskin, R., Scheid, J. F., Marcovecchio, P. M., Klein, F., Gao, H., Gnanapragasam, P. N. P., Abadir, A., Seaman, M. S., Nussenzweig, M. C. & Bjorkman, P. J. (2011) Increasing the Potency and Breadth of an Anti-HIV Antibody using Structure-Based Rational Design. *Science* 334, 1289-1293.

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 (NIH45-46 G54W) from Dr. Pamela Bjorkman (cat# 12174)." Also include the reference cited above in any publications. This reagent is not available to commercial entities. This reagent is patented.
Last Updated	June 11, 2018