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DATA SHEET

Reagent: Anti-HIV-1 gp120 Monoclonal (10-1074)

Catalog Number: 12477

Lot Number: 190442

Release Category: E

Provided: 500 µg of purified antibody at 1.04 mg/mL in PBS, pH 7.2 (sterile filtered)
Endotoxin = 0.1 EU/mg by LAL method
Purity = ~95% by SDS-PAGE, non-reduced

Description: A recombinant monoclonal antibody to HIV-1 gp120, specifically to the V3 region. Binding depends on the presence of glycosylation at Asn 332.

Host: Human

Titer: The user should determine the optimal concentration for any application.

Special Characteristics: This recombinant antibody was produced in an Expi293F expression system and was two-step purified by MabSelect SuRe™ LX and HiLoad26/600. This antibody originates from an HIV-1 infected individual.

This antibody has both potent and broad neutralization.

Please see the [LANL HIV Molecular Database](#) for more information.

Alternate name: 10-1074 MAb

Recommended Storage: 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.

Contributor: Dr. Michel C. Nussenzweig

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

References: Shingai, M., Nishimura, Y., Klein, F., Mouquet, H., Donau, O. K., Plishka, R., Buckler-White, A., Seaman, M., Piatak, M., Jr., Lifson, J. D., Dimitrov, D. S., Nussenzweig, M. C. and Martin, M. A. (2013). Antibody-mediated immunotherapy of macaques chronically infected with SHIV suppresses viraemia. *Nature*, 503(7475), 277-80. doi:10.1038/nature12746 [PUBMED](#)

Mouquet, H., Scharf, L., Euler, Z., Liu, Y., Eden, C., Scheid, J. F., Halper-Stromberg, A., Gnanapragasam, P. N., Spencer, D. I., Seaman, M. S., Schuitemaker, H., Feizi, T., Nussenzweig, M. C. and Bjorkman, P. J. (2012). Complex-type N-glycan recognition by potent broadly neutralizing HIV antibodies. *Proc Natl Acad Sci U S A*, 109(47), E3268-77. doi:10.1073/pnas.1217207109 [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 (10-1075) from Dr. Michel C. Nussenzweig (cat# 12477)." Also include the references cited above in any publications.

Recipient must not use or incorporate the reagent for commercial purposes.

Last Updated October 05, 2020

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