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DATA SHEET

Reagent:	Anti-HIV-1 gp120 Monoclonal (4G10)
Catalog Number:	2534
Lot Number:	160245
Release Category:	D
Provided:	1 mL of culture supernatant
Description:	A monoclonal antibody to HIV-1 gp120, specifically to the V3 loop (epitope: RIQRGPGRAFVTIGK)
Host:	Mouse
Titer:	The user should determine the optimal concentration for any application.
Special Characteristics:	This antibody was produced in cell culture. It originates from a hybridoma. The hybridoma was created by immunizing Balb/c mice with HIV-1 gp120 (aa 308-322) fused to HBcAG particles. The resulting splenocytes were fused to Ag8653 myeloma cells. 4G10 recognizes HIV-1 gp120 V3 loop peptide RIQRGPGRAFVTIGK (aa 308-322) in ELISA. The antibody inhibits syncytium formation, RT activity, and p24 production *in vitro* (100% over 20 days). Please see the LANL HIV Immunology Database for more information. Applications: ELISA, Western blot, IFA
Recommended Storage:	Keep the reagent 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. Albrecht von Brunn (Courtesy of CFAR, NIBSC)
Isotype:	IgG_1

References:

von Brunn, A., Brand, M., Reichhuber, C., Morys-Wortmann, C., Deinhardt, F., & Schodel, F. (1993). Principal neutralizing domain of HIV-1 is highly immunogenic when expressed on the surface of hepatitis B core particles. Vaccine, 11(8), 817-824. PUBMED

von Brunn A., Reichhuber C., Brand M., Bechowsky B., Gürtler L., Eberle J., Kleinschmidt A., Erfle V., Schödel F. (1993). The principal neutralizing determinant (V3) of HIV-1 induces HIV-1-neutralizing antibodies upon expression on HBcAg particles. Vaccines 93, Cold Spring Harbor Press; Cold Spring Harbor, New York, 159-165. ARTICLE

NOTE:

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