

DATA SHEET

For research use only. Not for use in humans.

Reagent:	Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp41 (246-D)
Catalog Number:	ARP-1245
Lot Number:	160067
Provided:	Each vial of ARP-1245 contains approximately 100 µg of purified antibody in phosphate buffered saline (PBS) at a concentration of 2.68 mg/mL.
Description:	ARP-1245 is a recombinant monoclonal antibody that has gp41 specificity against qqLLGIWg with the core being LLGI. The hybridoma was generated by the fusion of Epstein-Barr virus (EBV)-transformed peripheral blood mononuclear cells (PBMCs) from HIV+ volunteers with SHM-D33 mouse x human heteromyeloma cells.
Special Characteristics:	ARP-1245 was produced in an Expi293 expression system and purified by protein G chromatography. This antibody originates from EBV-immortalized PBMCs from HIV-seropositive individuals. Please see the Los Alamos database for more information.
Titer:	The user should determine the optimal concentration for any application.
Host:	Human
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. Susan Zolla-Pazner
Isotype:	IgG1 _k
References:	Gorny, M. K., et al. "Generation of Human Monoclonal Antibodies to Human Immunodeficiency Virus." <i>Proc. Natl. Acad. Sci. USA</i> 86 (1989): 1624-1628. PubMed: 2922401. Robinson, W. E., Jr., et al. "Two Immunodominant Domains of gp41 Bind Antibodies which Enhance Human Immunodeficiency Virus Type 1 Infection <i>in vitro</i>." <i>J. Virol.</i> 65 (1991): 4169-4176. PubMed: 2072448. Tyler, D. S., et al. "Identification of Sites within gp41 that Serve as Targets for Antibody-Dependent Cellular Cytotoxicity by Using Human Monoclonal Antibodies." <i>J. Immunol.</i> 145 (1990): 3276-3282. PubMed: 1700004. Xu, J. Y., et al. "Epitope Mapping of Two Immunodominant Domains of gp41, the Transmembrane Protein of Human Immunodeficiency Virus Type 1, Using Ten Human Monoclonal Antibodies." <i>J. Virol.</i> 65 (1991): 4832-4838. PubMed: 1714520.
Citation:	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) gp41 (246-D), ARP-1245."
Biosafety Level: 1	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of

Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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Note:

Corporate requests should be directed in writing to Dr. Susan Zolla-Pazner at the Icahn School of Medicine at Mount Sinai, One Gustave L. Levy Place, Box 1090, New York, NY 10029. Please provide two weeks' notice to the contributor prior to submitting a document for publication or making a public oral presentation of research results obtained from the use of these materials in writing or by providing a copy of the publication document.

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