



Product Information Sheet for HRP-20068

Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) p24 Protein, Clone AG3.0 (produced *in vitro*)

Catalog No. HRP-20068

For research use only. Not for use in humans.

Contributor and Manufacturer:

Creative Biolabs, Inc., Shirley, New York, USA

Product Description:

Creative Biolabs Catalog No. MRO-961CQ-LowE

Antibody Class: IgG1

Mouse monoclonal antibody prepared against the p24 Gag protein of human immunodeficiency virus type 1 (HIV-1; UniProt: [P04591](#)) was produced from the expression vectors by transient transfection and expression in mammalian cells with chemically defined culture media, purified by affinity chromatography, ultrafiltrated and sterile filtered.¹

p24 is a component of the HIV particle capsid. There are approximately 2000 molecules per virus particle, or at a molecule weight of 24 kDa, about 104 virus particles per picogram of p24. The onset of symptoms of AIDS correlates with a reduction in the number of CD4+ T-cells and increased levels of virus and p24 in the blood.¹

Material Provided:

Each vial of HRP-20068 contains approximately 100 µL of purified monoclonal antibody in phosphate-buffered saline (PBS). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

HRP-20068 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

HRP-20068 recognizes the p24 Gag protein of HIV-1 and was shown to be reactive in ELISA, western blot and dot blot assays.^{1,2} Suggested applications include western blot, flow cytometry, immunohistochemistry, radio-immunoprecipitation assays (RIPA) and antigen capture assays.^{1,2,3}

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, NIAID, NIH: Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) p24 Protein, Clone AG3.0 (produced *in vitro*), HRP-20068, contributed by Creative Biolabs, Inc."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

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References:

1. Young, S., Personal Communication.
2. Simm, M., et al. "Aberrant Gag Protein Composition of a Human Immunodeficiency Virus Type 1 *vif* Mutant Produced in Primary Lymphocytes." *J. Virol.* 69 (1995): 4582-4586. PubMed: 7769728.
3. Sanders-Beer, B. E., et al. "Characterization of a Monoclonal Anti-Capsid Antibody that Cross-React with Three Major Primate Lentivirus Lineages." *Virology* 422 (2012): 402-412. PubMed: 22153299.

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