

Product Information Sheet for NR-31684

Monoclonal Anti-Influenza A Virus Polymerase Acidic Subunit (PA), Clone F1-2A5 (produced *in vitro*)

Catalog No. NR-31684

For research use only. Not for human use.

Contributor:

Toru Takimoto, D.V.M., Ph.D., Department of Microbiology and Immunology, University of Rochester Medical Center, Rochester, NY, USA

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1κ

Mouse monoclonal antibody prepared against the polymerase acidic subunit (PA) of influenza A virus was purified from clone F1-2A5 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0 mouse myeloma cells with splenocytes from BALB/c mice immunized by subcutaneous and intraperitoneal injection with purified RNA-dependent RNA polymerase complex from influenza virus A/chicken/Nanchang/3-120/2001 (H3N2).¹ The trimeric polymerase complex used for immunization was prepared from *Trichoplusia ni* insect cells coinfecting with three recombinant baculoviruses expressing the individual polymerase subunits.²

Material Provided:

Each vial of NR-31684 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-31684 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-31684 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-31684 binds to both the purified polymerase complex and the PA subunit from influenza virus A/chicken/Nanchang/3-120/2001 (H3N2) in ELISA. See Certificate of Analysis for details. The antibody is also reported to be functional in immunocytochemistry, immunofluorescence, and immunoprecipitation assays, and to react with polymerase proteins from a variety of other influenza strains.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Influenza A Virus Polymerase Acidic Subunit (PA), Clone F1-2A5 (produced *in vitro*), NR-31684."

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; 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 BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. MacDonald, L. A., et al. "Molecular Interactions and Trafficking of Influenza A Virus Polymerase Proteins

- Analyzed by Specific Monoclonal Antibodies." Virology 426 (2012): 51-59. PubMed: 22325937.
2. Aggarwal, S., et al. "Biochemical Characterization of Enzyme Fidelity of Influenza A Virus RNA Polymerase Complex." PLoS One 5 (2010): e10372. PubMed: 20454455.

ATCC® is a trademark of the American Type Culture Collection.

