

**Monoclonal Anti-Hantaan Virus Gc Glycoprotein, Clone 16E6 (produced *in vitro*)**

**Catalog No. NR-36169**

This reagent is the property of the U.S. Government.

**For research use only. Not for human use.**

**Contributor:**

Connie S. Schmaljohn, Ph.D., Chief Scientist, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, Maryland

**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG1κ

Mouse monoclonal antibody prepared against the Hantaan virus Gc (formerly G2) glycoprotein was purified from clone 16E6 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 mouse myeloma cells with splenocytes from mice immunized with protein A sepharose-bound Hantaan virus glycoprotein-antibody complexes as described by Arikawa et al.<sup>1</sup>

This reagent is part of the Joel M. Dalrymple – Clarence J. Peters USAMRIID Antibody Collection.

**Material Provided:**

Each vial of NR-36169 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-36169 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:**

NR-36169 is reactive in indirect immunofluorescence assays using Vero E6 cells infected with Hantaan virus, and neutralizes Hantaan virus in plaque reduction neutralization tests. See Certificate of Analysis for details. The antibody is also reported to function in ELISA, hemagglutination inhibition and immunoprecipitation assays, and to cross-react on Puumala virus and Sapporo rat virus.<sup>1</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained from the Joel M. Dalrymple – Clarence J. Peters USAMRIID Antibody Collection through BEI

Resources, NIAID, NIH: Monoclonal Anti-Hantaan Virus Gc Glycoprotein, Clone 16E6 (produced *in vitro*), NR-36169.”

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/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](http://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. Arikawa, J., et al. “Characterization of Hantaan Virus Envelope Glycoprotein Antigenic Determinants Defined by Monoclonal Antibodies.” J. Gen. Virol. 70 (1989): 615-624. PubMed: 2471792.

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



BEI Resources

[www.beiresources.org](http://www.beiresources.org)

E-mail: [contact@beiresources.org](mailto:contact@beiresources.org)

Tel: 800-359-7370

Fax: 703-365-2898