

**Monoclonal Anti-Hantaan Virus Gn Glycoprotein, Clone 16D2 (produced *in vitro*)**

**Catalog No. NR-36165**

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

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG1κ

Mouse monoclonal antibody prepared against the Hantaan virus Gn (formerly G1) glycoprotein was purified from clone 16D2 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-36165 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-36165 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-36165 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.<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 Gn Glycoprotein, Clone 16D2 (produced *in vitro*), NR-36165.”

**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).

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**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.

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