Monoclonal Anti-Hantaan Virus Gc Glycoprotein, Clone 11E10 (produced *in vitro*)

Catalog No. NR-36168

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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 Gc (formerly G2) glycoprotein was purified from clone 11E10 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.[1]

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

Material Provided:

Each vial of NR-36168 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-36168 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-36168 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 Prospect Hill virus, Puumala virus, and Sapporo rat virus.[1]

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 11E10 (produced *in vitro*), NR-36168."

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:

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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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