

Monoclonal Anti-Rift Valley Fever Virus Gn Glycoprotein, Clone 4-39-CC (produced *in vitro*)

Catalog No. NR-43195

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For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2bk
 Mouse monoclonal antibody prepared against the Rift Valley fever virus (RVFV) Gn glycoprotein was purified from clone 4-39-CC 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 immunized BALB/c mice.¹ The epitope recognized by the 4-39-CC antibody is reported to map to amino acids 127-146 of the mature Gn (formerly G2) glycoprotein.²

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

Material Provided:

Each vial of NR-43195 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-43195 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-43195 is reactive in indirect immunofluorescence assays using Vero E6 cells infected with RVFV, and neutralizes RVFV in plaque reduction neutralization tests. See Certificate of Analysis for details. The antibody is also reported to function in ELISA¹ as well as radioimmunoprecipitation assays.²

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-Rift Valley Fever Virus Gn Glycoprotein, Clone 4-39-CC (produced *in vitro*), NR-43195.”

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.

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References:

- Schmaljohn, C. S., Personal Communication.
- Keegan, K., and M. S. Collett. “Use of Bacterial Expression Cloning to Define the Amino Acid Sequences of Antigenic Determinants on the G2 Glycoprotein of Rift Valley Fever Virus.” J. Virol. 58 (1986): 263-270. PubMed: 2422392.

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