

Monoclonal Anti-Crimean-Congo Hemorrhagic Fever Virus Pre-Gc Glycoprotein, Clone 12A9 (produced *in vitro*)

Catalog No. NR-40254

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For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against the Crimean-Congo hemorrhagic fever virus (CCHFV) Pre-Gc glycoprotein was affinity purified from clone 12A9 hybridoma supernatant. Lot 61506733 was purified using protein G magnetic beads. Lot 70008695 was purified by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 mouse myeloma cells with splenocytes from BALB/c mice immunized with protein A sepharose-bound CCHFV glycoprotein-antibody complexes as described by Bertolotti-Ciarlet et al.¹

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

Material Provided:

Each vial of NR-40254 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-40254 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-40254 is reactive in indirect immunofluorescence assays using Vero E6 cells infected with CCHFV, and neutralizes CCHFV in plaque reduction neutralization tests. See Certificate of Analysis for details. Clone 12A9 antibody is also reported to function in ELISA and immunoprecipitation assays, to partially protect suckling mice from lethal CCHFV challenge, and to recognize an epitope that is conserved among some, but not all, CCHFV strains tested.^{1,2}

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-Crimean-Congo Hemorrhagic Fever Virus Pre-Gc Glycoprotein, Clone 12A9 (produced *in vitro*), NR-40254.”

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.

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References:

1. Bertolotti-Ciarlet, A., et al. “Cellular Localization and Antigenic Characterization of Crimean-Congo

- Hemorrhagic Fever Virus Glycoproteins." J. Virol. 79 (2005): 6152-6161. PubMed: 15858000.
- Ahmed, A. A., et al. "Presence of Broadly Reactive and Group-Specific Neutralizing Epitopes on Newly Described Isolates of Crimean-Congo Hemorrhagic Fever Virus." J. Gen. Virol. 86 (2005): 3327-3336. PubMed: 16298978.

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