

**Monoclonal Anti-Crimean-Congo Hemorrhagic Fever Virus Pre-Gn Glycoprotein, Clone 5A5 (produced *in vitro*)**

**Catalog No. NR-40249**

This reagent is the tangible 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: IgG1k

Mouse monoclonal antibody prepared against the Crimean-Congo hemorrhagic fever virus (CCHFV) Pre-Gn glycoprotein was purified from clone 5A5 hybridoma supernatant using 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.<sup>1</sup>

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

**Material Provided:**

Each vial of NR-40249 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-40249 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-40249 is reactive in indirect immunofluorescence assays using Vero E6 cells infected with CCHFV. The antibody is not neutralizing *in vitro*. Clone 5A5 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 several CCHFV strains.<sup>1,2</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-Crimean-Congo

Hemorrhagic Fever Virus Pre-Gn Glycoprotein, Clone 5A5 (produced *in vitro*), NR-40249.”

**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](http://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.
2. 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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