

**Monoclonal Anti-*Bacillus anthracis* Lethal Factor, Clone LF-9A11 (produced *in vitro*)**

**Catalog No. NR-12188**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG1k  
 Monoclonal antibody prepared against recombinant lethal factor (rLF) from *Bacillus anthracis* (*B. anthracis*) was purified from hybridoma clone LF-9A11 supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63-Ag8 BALB/c mouse myeloma cells with splenocytes from female C57BL/6 x BALB/c F1 mice immunized intranasally with purified rLF.<sup>1</sup>

**Note:** The P3X63-Ag8 myeloma cell line secretes the MOPC21 myeloma protein, a mouse IgG1k antibody of unknown specificity. Thus, NR-12188 may contain both MOPC21 protein and *B. anthracis* LF-specific antibody of the IgG1k isotype, as well as inactive hybrid immunoglobulin molecules.

**Material Provided:**

Each vial of NR-12188 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-12188 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.<sup>1</sup>

**Functional Activity:**

**NR-12188 is released without confirmation of functional activity.** Clone LF-9A11 antibody is reported to bind *B. anthracis* LF in ELISA and surface plasmon resonance assays. The antibody is also reported to neutralize anthrax lethal toxin in cell-based assays, and passive transfer provided statistically significant protection against morbidity in a mouse lethal toxin challenge model.<sup>1</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Bacillus anthracis* Lethal Factor, Clone LF-9A11 (produced *in vitro*), NR-12188.”

**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. Staats, H. F., et al. “In Vitro and In Vivo Characterization of Anthrax Anti-Protective Antigen and Anti-Lethal Factor

Monoclonal Antibodies after Passive Transfer in a Mouse Lethal Toxin Challenge Model To Define Correlates of Immunity." *Infect. Immun.* 75 (2007): 5443-5452. PubMed: 17709410.

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