

Monoclonal Anti-*Bacillus anthracis* Protective Antigen, Clone PA 2II 14B7-1-1 (purified IgG, produced *in vitro*)

Catalog No. NR-4488

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Contributor:

United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, Maryland

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1κ

Monoclonal antibody prepared against recombinant protective antigen (PA) from *Bacillus anthracis* (*B. anthracis*)¹⁻³ was purified from hybridoma clone PA 2II 14B7-1-1⁴⁻⁶ supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 myeloma cells with splenocytes from BALB/c mice immunized with purified recombinant protein.

Material Provided:

Each vial of NR-4488 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-4488 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-4488 reacts with *B. anthracis* protective antigen in western blot assays.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Bacillus anthracis* Protective Antigen, Clone PA 2II 14B7-1-1 (purified IgG, produced *in vitro*), NR-4488."

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.

Disclaimers:

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References:

1. S. H. Leppla, personal communication.
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4. Little, S. F., et al. "Characterization of Lethal Factor Binding and Cell Receptor Binding Domains of Protective Antigen of *Bacillus anthracis* using Monoclonal Antibodies." Microbiology 142 (1996): 707-715. PubMed: 8868446.
5. Little, S. F. and J. R. Lowe. "Location of Receptor-Binding Region of Protective Antigen from *Bacillus anthracis*." Biochem. Biophys. Res. Commun. 180 (1991): 531-537. PubMed: 1953724.

6. Little, S. F., S. H. Leppla and E. Cora. "Production and Characterization of Monoclonal Antibodies to Protective Antigen Component of *Bacillus anthracis* Toxin." Infect. Immun. 56 (1988): 1807-1813. PubMed: 3384478.

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