

Monoclonal Anti-*Bacillus anthracis* Protective Antigen, Clone PA-3F11 (produced *in vitro*)

Catalog No. NR-12185

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 protective antigen (rPA) from *Bacillus anthracis* (*B. anthracis*) was purified from hybridoma clone PA-3F11 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 rPA.¹

Note: The clone name on the label for NR-12185 (PA3-F11) is incorrect. The correct name is Clone PA-3F11.

Note: The P3X63-Ag8 myeloma cell line secretes the MOPC21 myeloma protein, a mouse IgG1k antibody of unknown specificity. Thus, NR-12185 may contain both MOPC21 protein and *B. anthracis* PA-specific antibody of the IgG1k isotype, as well as inactive hybrid immunoglobulin molecules.

Material Provided:

Each vial of NR-12185 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-12185 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-12185 is released without confirmation of functional activity. Clone PA-3F11 antibody is reported to bind *B. anthracis* PA in ELISA and surface plasmon resonance assays. The antibody is also reported to neutralize anthrax lethal toxin in cell-based assays, but passive transfer did not provide statistically significant protection against morbidity in a mouse lethal toxin challenge model.¹

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Bacillus anthracis* Protective Antigen, Clone PA-3F11 (produced *in vitro*), NR-12185.”

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:

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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