Polyclonal Anti-*Bacillus anthracis* Collagen-like Protein BclA, (Immunoglobulin G, Rabbit)

Catalog No. NR-51406

For research use only. Not for human use.

Contributor and Manufacturer:
BEI Resources

Product Description:
Antibody class: IgG
Polyclonal antiserum to the collagen-like protein BclA[1,2,3] from *Bacillus anthracis (B. anthracis)* was produced in rabbit and purified by protein G affinity chromatography.

B. anthracis BclA is the immunodominant glycoprotein on the exosporium of *B. anthracis* spores.[1,2,3] The collagen-like region of the BclA protein is known to be highly polymorphic, with a variable number of GXX triplet motifs, including one to eight copies of the 21 amino acid sequence $(GPT)_5$GDTGTT, named the BclA repeat.[4]

Material Provided:
Each vial of NR-51406 contains approximately 100 µL of rabbit polyclonal antiserum in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-51406 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:[1]
NR-51406 is specific to the BclA protein from *B. anthracis* by ELISA.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Polyclonal Anti-*Bacillus anthracis* Collagen-like Protein BclA, (Immunoglobulin G, Rabbit), NR-51406."

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.

Disclaimers:
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References:
1. Sylvestre, P., E. Couture-Tosi and M. Mock. "A Collagen-like Surface Glycoprotein is a Structural Component of the *Bacillus anthracis* Exosporium." Mol. Microbiol. 45 (2002): 169-178. PubMed: 12100557.
2. Brahmbhatt, T. N., et al. "*Bacillus anthracis* Exosporium Protein BclA Affects Spore Germination, Interaction with Extracellular Matrix Proteins, and Hydrophobicity." Infect. Immun. 75 (2007): 5233–5239. PubMed: 17709408.
3. Brahmbhatt, T. N., et al. "Recombinant Exosporium Protein BclA of *Bacillus anthracis* Is Effective as a Booster for Mice Primed with Suboptimal Amounts of Protective Antigen." Infect. Immun. 75 (2007): 5240–5247. PubMed: 17785478.
4. Sylvestre, P., E. Couture-Tosi and M. Mock. "Polymorphism in the Collagen-Like Region of the *Bacillus anthracis* BclA Protein Leads to Variation in Exosporium Filament Length." J. Bacteriol. 185 (2003): 1555-1563. PubMed: 12591872.

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