Certificate of Analysis for NR-12131

Polyclonal Anti-*Bacillus anthracis* Hypothetical Protein p5303 (Locus_Tag: BA_5699), (immunoglobulin G, Rabbit)

Catalog No. NR-12131

This reagent is the tangible property of the U.S. Government.

Product Description: Polyclonal antibody to hypothetical protein p5303 (locus_tag: BA_5699) of *Bacillus anthracis* (*B. anthracis*) was produced in rabbits and purified by protein G affinity chromatography.

Lot: 58394253 **Manufacturing Date: 18DEC2008**

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless; no particulate matter	Clear and colorless; no particulate matter
SDS-PAGE (SYPRO Orange densitometer scan)	IgG band represents > 95% of total staining intensity	IgG band represents > 98% of total staining intensity (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay	Report results	1 mg/mL
Functional Activity Western blot[1] (Figure 2) Recombinant p5303 (BEI Resources NR-12130) Carbonic anhydrase ELISA titer[2] (Figure 3) Recombinant p5303 (BEI Resources NR-12130) Carbonic anhydrase	 Reactive Not reactive Report results Not reactive	 Reactive Not reactive > 1:10000 Not reactive
Sterility	0.22 µm filter sterilized	0.22 µm filter sterilized

[1]A dilution of 1:10000 of NR-12131 is recommended.
[2]A dilution of 1:6400 of NR-12131 is recommended.

Figure 1 – SDS-PAGE

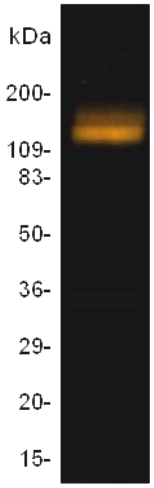

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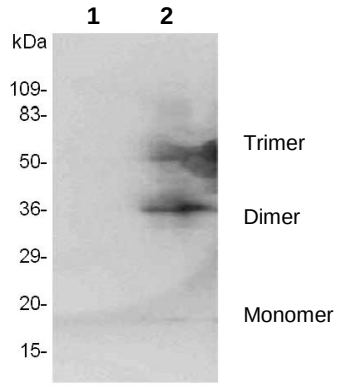
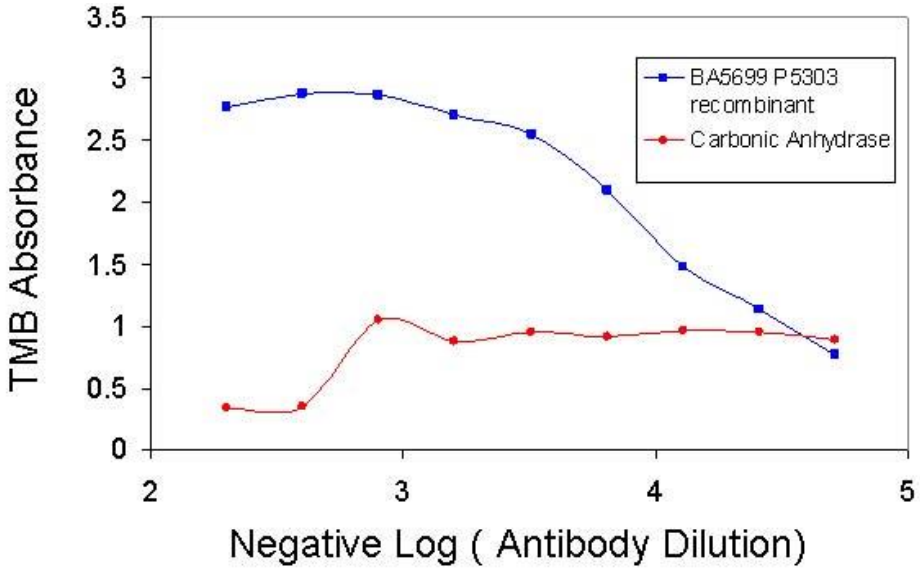
Figure 2 – Western Blot



Lane 1: Carbonic anhydrase
Lane 2: BEI Resources NR-12130

Figure 3 – Antibody Adsorption Titration Analysis (ELISA)



Date: 03 DEC 2014 **Signature:**

Title: Technical Manager, BEI Authentication or designee

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