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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-DPGA anthrax [F26G3] Standard Size Ab03884-10.0

Isotype and Format: Human IgG1, Kappa

Clone Number: F26G3

Alternative Name(s) of Target: DPGA; capsular antigen; γ DPGA; gamma DPGA; poly-gamma-d-glutamic acid; poly- γ -d-glutamic acid; antiphagocytic polypeptide capsule

UniProt Accession Number of Target Protein:

Published Application(s): in vivo, neutralize, ELISA, IF

Published Species Reactivity: Bacillus anthracis

Immunogen: The original antibody was generated by immunizing BALB/c mice with *B. licheniformis* γ DPGA in combination with CD40 agonist antibody.

Specificity: This antibody specifically binds the poly- γ -D-glutamic acid (γ DPGA) capsule of *Bacillus anthracis*. *Bacillus anthracis* is surrounded by an antiphagocytic polypeptide capsule composed of poly γ -d-glutamic acid (γ DPGA). The γ DPGA capsule shields the vegetative form of *B. anthracis* from agglutination by monoclonal antibodies to its cell wall polysaccharide. γ DPGA has been identified recently as a potential target for vaccine development. *Bacillus anthracis* is a spore-forming bacterium and a causative agent for Anthrax, which is a highly lethal infectious disease in human and poses a great threat as an emerging bioterror agent.

Application Notes: The binding of this antibody to *B. anthracis* capsule was assessed by direct immunofluorescence using the Alexa Fluor 488 (Molecular Probes) labeled antibody. An antigen capture ELISA was developed, where this antibody was used as capture antibody and a horseradish peroxidase conjugate of this antibody was used as an indicator antibody. The assessment of assay sensitivity was done using γ DPGA from *B. licheniformis* demonstrated that the assay could detect γ DPGA at concentrations as low as 100-140 pg/ml. Passive immunization with this antibody protected >90% of mice in a pulmonary model of anthrax that was lethal in control mice (PMID: 15051894). A 50:50 mixture of PDGA antibodies F24F2 and F26G3 was used in the development of an antigen capture ELISA with a sensitivity of approximately 9 ng/ml of serum after a 1/40 dilution and 2.25 ng/ml for a 1:10 dilution (PMID: 19506008).

Antibody First Published in: Kozel et al. MAbs to *Bacillus anthracis* capsular antigen for immunoprotection in anthrax and detection of antigenemia. Proc Natl Acad Sci U S A. 2004 Apr 6; 101(14): 5042-5047. [PMID:15051894](#)

Note on publication: Describes the generation of two antibodies against *B. anthracis* γ DPGA and evaluates their capacity to provide protection in pulmonary mouse model of anthrax.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.