



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Anti-DPGA anthrax [F24F2] Bulk Size Ab03885-15.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

**Isotype and Format:** Human IgM, Kappa

**Clone Number:** F24F2

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

**UniProt Accession Number of Target Protein:**

**Published Application(s):** ICC, ELISA, IHC

**Published Species Reactivity:** Bacillus anthracis

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

**Specificity:** This antibody specifically binds the poly-γ-D-glutamic acid (γDPGA) capsule of *Bacillus anthracis*. *Bacillus anthracis* is surrounded by an antiphagocytic polypeptide capsule composed of poly γ-d-glutamic acid (γDPGA). The γDPGA capsule shields the vegetative form of *B. anthracis* from agglutination by monoclonal antibodies to its cell wall polysaccharide. γDPGA 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:** This antibody was used for development of a quantitative capture ELISA for PDGA (PMID: 18195035). 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). The HRP or Alexa Fluor 555 labelled antibody was also used in the immunohistochemical staining of γDPGA in mouse liver and spleen tissues after they were injected with 500, 100, or 20µg of γDPGA and tissues were harvested on days 1, 2, 4, and 8 (PMID: 18195035). This antibody was also used in the cellular localization of γDPGA in mouse liver (PMID: 18195035).

**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* γDPGA and evaluates their capacity to provide protection in pulmonary mouse model of anthrax.

## Product Form

**Size:** 500 µg Purified antibody in bulk size.

**Purification:** Affinity Purified using a recombinant lectin column

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.