

Product datasheet

Human Anthrax EF/Adenylyl cyclase peptide ab41848

Description

Product name	Human Anthrax EF/Adenylyl cyclase peptide
Animal free	No
Nature	Synthetic
Species	Human

Specifications

Our [Abpromise guarantee](#) covers the use of **ab41848** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Blocking - Blocking peptide for Anti-Anthrax EF/Adenylyl cyclase antibody (ab21267)
Form	Liquid
Additional notes	This product was previously labelled as Anthrax EF

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 7.20 Preservative: 0.02% Sodium azide Constituents: PBS, 0.1% BSA
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General Info

Relevance	Anthrax infection is initiated by inhalation, ingestion or cutaneous contact with Bacillus anthracis endospores. B. anthracis produces three polypeptides that comprise the anthrax toxin: protective antigen (PA), lethal factor (LF) and edema factor (EF). PA binds to two related proteins on the cell surface; these are termed tumor epithelial marker 8 (TEM8)/anthrax toxin receptor (ATR) and capillary morphogenesis protein 2 (CMG2), although it is still unclear which is physiologically relevant. Following PA binding to its receptor, PA is cleaved into two fragments by a furin like protease. The bound fragment binds both LF and EF; the resulting complex is then endocytosed which allows the translocation of LF and EF into the cytoplasm. EF is a calmodulin and Ca++ dependent adenylate cyclase responsible for the edema seen in the disease. It is thought to
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benefit the B. anthracis bacteria by inhibiting cells of the host immune system.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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