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## **Anthrax Lethal Factor Antibody**

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 253502

**Unit:** 0.1 mg

### **Description:**

Anthrax infection is initiated by the 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. LF is the primary toxin of anthrax and functions as a highly specific protease that cleaves members of the mitogen-activated protein kinase kinase (MAPKK) family near their amino terminus, interfering with MAPK signaling and inducing apoptosis.

**Isotype:** Rabbit Ig

**Applications:** E

**Species Reactivity:** Bact

**Format:** Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

**Alternate Names:** Anthrax Lethal Factor ; Anthrax LF

**Accession No.:** P15917

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of Anthrax lethal factor protein.

**Application Notes:** E: 1:500-1:1,000

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.