

12-8191: Anti-Anthrax Protective Antigen (Intermediate Domain)

Clonality : Polyclonal
Alternative Name : Anthrax Protective Antigen

Description

Specificity: Rabbit Anti-Anthrax Protective Antigen (Anthrax PA) recognizes an epitope in the intermediate domain of Anthrax PA. This polyclonal antibody was purified using affinity chromatography.

Background: 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)^{1,2}. PA binds to two related proteins on the cell surface; these are termed tumor epithelial marker 8 (TEM8)/anthrax toxin receptor (ATR)³ and capillary morphogenesis protein 2 (CMG2)⁴, 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. These toxins are usually sufficient to cause rapid cell death, and often the death of the organism.

Product Info

Amount : 0.1 mg / 20µg
Concentration: 0.5 mg/ml

Content : Formulation: This polyclonal antibody is formulated in phosphate buffered saline (PBS) pH 7.4 containing 0.02% sodium azide as a preservative.

Storage condition : This polyclonal antibody is stable for at least one week when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at -20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.