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Datasheet for ABIN6990497

anti-Anthrax Protective Antigen antibody (C-Term)

Overview

Quantity:	0.1 mg
Target:	Anthrax Protective Antigen (PA)
Binding Specificity:	AA 600-650, C-Term
Reactivity:	Bacillus anthracis
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Anthrax Protective Antigen antibody is un-conjugated
Application:	ELISA

Product Details

Immunogen:	Anthrax protective antigen antibody was raised against a synthetic peptide corresponding to 14 amino acids at the carboxy terminus of the Anthrax protective antigen protein. The immunogen is located within amino acids 600 - 650 of Anthrax Protective Antigen.
Isotype:	IgG
Purification:	Anthrax Protective Antigen Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	Anthrax Protective Antigen (PA)
Alternative Name:	Anthrax Protective Antigen (PA Products)
Background:	Anthrax Protective Antigen Antibody: Anthrax infection is initiated by the inhalation, ingestion, or cutaneous contact with Bacillus anthracis endospores. B. anthracis produces three

Target Details

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. These toxins are usually sufficient to cause rapid cell death, and often the death of the organism.

Gene ID: 3361714

UniProt: [P13423](#)

Application Details

Application Notes: Anthrax protective antigen antibody can be used for the detection of Anthrax protective antigen protein in ELISA. It will detect 10 ng of free peptide at 1 µg/mL.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Anthrax Protective Antigen Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: Anthrax Protective Antigen antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.