

Datasheet for ABIN6990498

anti-Anthrax Toxin Lethal Factor antibody (AA 420-470)[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Anthrax Toxin Lethal Factor (Lef)
Binding Specificity:	AA 420-470
Reactivity:	Bacillus anthracis
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Anthrax Toxin Lethal Factor antibody is un-conjugated
Application:	ELISA

Product Details

Immunogen:	Anthrax lethal factor antibody was raised against a synthetic peptide corresponding to 16 amino acids in the middle of the Anthrax lethal factor protein. The immunogen is located within amino acids 420 - 470 of Anthrax Lethal Factor.
Isotype:	IgG
Purification:	Anthrax Lethal Factor Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	Anthrax Toxin Lethal Factor (Lef)
Alternative Name:	Anthrax Lethal Factor (Lef Products)
Background:	Anthrax Lethal Factor 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. 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.

Gene ID: 3361711

UniProt: [P15917](#)

Application Details

Application Notes: Anthrax lethal factor antibody can be used for the detection of Anthrax LF 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 Lethal Factor 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 Lethal Factor 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.