

Datasheet for 600-401-Y21**Anthrax Lethal Factor Antibody****Overview**

Description:	Anti-Anthrax Lethal Factor (RABBIT) Antibody - 600-401-Y21
Item No.:	600-401-Y21
Size:	100 µg
Applications:	ELISA
Reactivity:	Bacillus sp.
Host Species:	Rabbit

Product Details

Background:	Anthrax infection is initiated by the inhalation, ingestion, or cutaneous contact with <i>Bacillus anthracis</i> endospores. <i>B. anthracis</i> 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.
Synonyms:	Anthrax Lethal Factor Antibody, Lethal factor, Anthrax lethal toxin endopeptidase component, LF, pxo1_107, BXA0172, GBAA_pXO1_0172, Plasmid pXO1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	lef
Reactivity:	Bacillus sp.

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Anthrax lethal factor antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 16 amino acids near the C-terminus of the Anthrax lethal factor protein.
Purity/Specificity:	Anti-Anthrax Lethal Factor Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Anthrax Lethal Factor from other sources has not been determined.
Relevant Links:	• UniProtKB - P15917 • GeneID - 3361711 • NCBI - NP_052803.1

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Anthrax Lethal Factor Antibody has been tested for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 94 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

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