

Datasheet for 600-401-Y22**Anthrax PA Antibody****Overview**

Description:	Anti-Anthrax PA (RABBIT) Antibody - 600-401-Y22
Item No.:	600-401-Y22
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. These toxins are usually sufficient to cause rapid cell death, and often the death of the organism.
Synonyms:	Anthrax PA Antibody , pag, pXO1-110, BXA0164, GBAA_pXO1_0164, Protective antigen, Anthrax toxins translocating protein, pxo1_110, Protective antigen PA-20, PA20, Protective antigen PA-63, PA63, Protective antigen, PA-83, PA83, Plasmid pXO1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	pagA
Reactivity:	Bacillus sp.
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Anthrax PA antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 16 amino acids in the internal region of the Anthrax protective antigen protein.
Purity/Specificity:	Anti-Anthrax PA Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Anthrax PA from other sources has not been determined.
Relevant Links:	• UniProtKB - P13423 • GeneID - 3361714 • NCBI - AAF86457

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Anthrax PA Antibody has been tested for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 85 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:	1.0 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
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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