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Datasheet for 100-401-H55

Anthrax Protective Antigen Antibody

Overview

Description:	Anti-Anthrax Protective Antigen (RABBIT) Antibody - 100-401-H55
Item No.:	100-401-H55
Size:	200 µL
Applications:	WB
Reactivity:	Bacillus anthracis
Host Species:	Rabbit

Product Details

Background:	Anthrax PA (Protective Antigen) and Anthrax LF (Lethal Factor), along with Anthrax EF (Edema Factor), are toxins produced by Bacillus anthracis. All three of the proteins must be present for toxic entry into cells. Anthrax PA is secreted from Bacillus anthracis as an 83 kD (PA83) protein which is cleaved by furin protease, releasing a 20 kD fragment. The 63 kD portion (PA63) of the cleavage product forms a heptamer, which binds the toxins LF and EF. This complex enters via receptor-mediated endocytosis where LF and EF exert their toxic effects. Anthrax PA is ideal for researchers interested in Neurobiology research.
Synonyms:	pag, Anthrax Protective Antigen, Anthrax toxins translocating protein, PA-83, Protective antigen PA-20, PA20, Protective antigen PA-63, PA63
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	pagA
Reactivity:	Bacillus anthracis
Immunogen Type:	Conjugated Peptide
Immunogen:	Anthrax Protective Antigen Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to the internal region of the Anthrax PA protein.

Purity/Specificity:	Anti-Anthrax Protective Antigen Antibody is sera. A BLAST analysis was used to suggest cross-reactivity with Anti-Anthrax PA from multiple species based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Anthrax PA from other sources has not been determined.
Relevant Links:	• UniProtKB - P13423 • NCBI - NP_052806.1 • GeneID - 1158723

Application Details

Tested Applications:	WB
Application Note:	Anti-Anthrax PA (Protective Antigen) Antibody has been tested in WB. Expect a band approximately 83kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

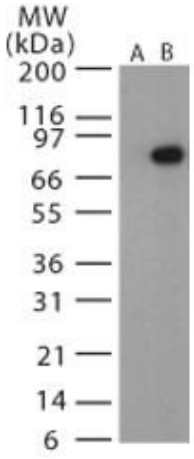
Formulation

Physical State:	Liquid
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide
Stabilizer:	0.05% BSA

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.

Images



Western Blot

Western Blot of Rabbit anti-Anthrax Protective Antigen antibody. Lane A: recombinant Anthrax PA protein. Lane B: recombinant Anthrax PA protein. Load: 10 µg per lane. Primary antibody: Anthrax Protective Antigen antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 83 kDa in lane B for Anthrax Protective Antigen. Lane A is pre-bleed as control. Other band(s): none.

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