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Anthrax PA Antibody
RABBIT POLYCLONAL

Catalog Number: AB-403
Quantity: 200 microliters, 400 microliters, 600 microliters
Format: 200 μ l PBS containing 0.2% gelatin and 0.05% sodium azide
Host: Rabbit
Isotype: IgG
Immunogen: synthetic peptides

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 toxicity to occur. It begins with the binding of PA to its cell-surface receptor, ATR (anthrax toxin receptor), at which point PA is cleaved and the resulting 63 kD carboxyl-terminal fragment binds to LF and EF. LF is a protease that is known to cleave members of the mitogen-activated protein kinase kinase (MAPKK) family(2).

Specificity and Preparation:

Anthrax PA rabbit anti-human polyclonal antibody was developed by immunizing rabbits with synthetic peptides corresponding to amino acids 240-254 of the anthrax PA protein (~83 kD). Anthrax PA antibody is cleaved from the 83 kDa form to the 63 kDa form at amino acids 164-167. The anthrax PA antibody (made against amino acids 250-250) should recognize both the 83 kDa and 63 kDa PA forms, but not the 20 kDa cleavage fragment.

Usage and Storage:

Reported to be effective for detection of anthrax PA protein in immunoblotting (western blot, 1:1000). Store at 4°C, stable for 6 months. For long-term storage, store at -20°C. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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