

***Bacillus anthracis* Protective Antigen Monoclonal Antibodies**

ORDERING INFORMATION

Catalog No.	Clone No.	MAb Subtype	Size
18720	C3	IgG1	200ug
18721	101	IgG2b	200ug
18722	102	IgG2b	200ug
18725	105	IgG1	200ug
18726	106	IgG1	200ug

Format: Protein A (C3) or Protein G-purified antibody in PBS, pH 7.4, 0.09% sodium azide.

BACKGROUND

Anthrax toxin produced by *Bacillus anthracis* is composed of three proteins: Protective Antigen (PA), Edema Factor (EF), and Lethal Factor (LF). Toxicity requires the assembly of all three of these proteins, and this process is initiated when full-length PA binds to the cell surface ATR (anthrax toxin receptor). After binding, PA is enzymatically cleaved to yield a 63kDa fragment which then binds EF and LF, and the complex is internalized.

SPECIFICATION SUMMARY

Antigen: Purified *B. anthracis* Protective Antigen (83kDa).

Host Species: Mouse

Specificity: These antibodies recognize different epitopes of the 83kDa and 63kDa forms of *B. anthracis* PA. They do not cross-react with *B. anthracis* EF, LF, or spore/vegetative surface antigens.

APPLICATIONS

Immunoblotting: use 18721, 18725, or 18726 at 5ug/ml.

Sandwich ELISA: use 18720 for capture (5ug/ml) and 18722 for detection (1ug/ml); use 18275 for capture (5ug/ml) and 18726 for detection (1ug/ml).

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS.

STORAGE AND STABILITY

These antibodies are stable at 4°C or for at least one (1) year at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.