

***Bacillus anthracis* Protective Antigen Monoclonal Antibody**

ORDERING INFORMATION

Catalog Nos.: 18720 (C3), 18721 (101), 18722 (102), 18723 (103), 18724 (104), 18725 (105), and 18726 (106).

Size: 200 ug purified antibody in PBS, pH 7.4.

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 63 kD fragment which then binds EF and LF, and the complex is internalized.

SPECIFICATION SUMMARY

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

Host Species: Mouse

Antibody Class: IgG1=18720, 18725, 18726; IgG2b=18721, 18722, 18723, 18724

Preservative: 0.1% NaN₃

SPECIFICITY

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

APPLICATIONS

Immunoblotting: use 18721, 18723, 18725, or 18726 at 5 ug/ml.

Sandwich ELISA: use coating antibody (18720 or 18725) at 5 ug/ml; use detect antibody (18722, 18723, or 18726) at 1 ug/ml.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

These antibodies are stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

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