

***Bacillus anthracis* Lethal Factor Antigen Monoclonal Antibody**

ORDERING INFORMATION

Catalog Nos.: 18729 (105) and 18730 (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 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. LF is a protease and cleaves enzymes of the MAPKK (mitogen-activated protein kinase kinase) family.

SPECIFICATION SUMMARY

Antigen: Purified *B. anthracis* Lethal Factor (82 kD).

Host Species: Mouse

Antibody Class: IgG1

Preservative: 0.1% NaN₃

SPECIFICITY

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

APPLICATIONS

Immunoblotting: use at 5 ug/ml.

Sandwich ELISA: use coating antibody (18730) at 5 ug/ml; use detect antibody (18729) 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.