



# Anti-B. anthracis Protective Antigen Monoclonal antibody, Clone CAP0107 (DMAB3029)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Monoclonal Antibody to Bacillus anthracis Protective Antigen
<b>Specificity</b>	Protective antigen of Bacillus anthracis. Does not cross-react with lethal factor antigen of B. anthracis, Y. pestis, F. tularensis or Toxoplasma gondii.
<b>Target</b>	B. anthracis Protective Antigen
<b>Immunogen</b>	Purified protective antigen of Bacillus anthracis (vaccine strain STI-1)
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	B. anthracis
<b>Clone</b>	CAP0107
<b>Affinity Constant</b>	Not determined
<b>Purification</b>	>95% pure (SDS-PAGE). Protein G chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Suitable for use in ELISA and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. Recommended pairs for sandwich immunoassay:

- **Capture**  
[DMAB3028](#)
- **Detection**  
[DMAB3029](#)

<b>Format</b>	Purified, Liquid
<b>Concentration</b>	2.1mg/ml (OD280nm, E0.1%=1.4)
<b>Size</b>	1 mg
<b>Buffer</b>	PBS, pH 7.4
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	Store at 2-8°C.

## BACKGROUND

<b>Introduction</b>	Anthrax toxins are composed of three distinct proteins, a protective antigen (PA), a lethal factor (LF) and an edema factor (EF). None of these proteins are toxic by themselves and several studies indicate that the anthrax toxin has the familiar A-B enzymatic binding structure, with PA acting as the binding domain and EF and/or LF acting as the active fragments.
<b>Keywords</b>	Bacillus anthracis Protective Antigen; Anthrax; B. anthracis; Prot. Ag; anthrax PA; Anthrax toxins translocating protein; PA 83; PA; PA83; Pag; PagA; Protective antigen; Anthrax toxin