

## ARG23555 anti-Bacillus anthracis protective antigen antibody [C3]

Package: 100 µg

Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [C3] recognizes Bacillus anthracis protective antigen. Mouse anti Anthrax Protective Antigen antibody, clone C3 recognizes the Protective Antigen of the anthrax toxin. Bacillus anthracis produces a toxin composed of three proteins, the Protective Antigen (PA), the Edema Factor (EF) and the Lethal Factor (LF). The three proteins depend on each other for their toxic effect. Both EF and LF functions intracellularly but are too large to enter the cell through existing channels. The PA is responsible for transporting the EF and LF into cells. The 83kDa PA (PA83) binds to the cell surface where a 20 kDa N-terminal fragment (PA20) is cleaved off, exposing binding sites for LF and EF. The remaining 63 kDa portion (PA63) oligomerizes to form a heptamer pre-pore, which then associates with up to three molecules of EF and/or LF. The receptor complex is internalized within endocytotic vessels that are subsequently acidified, transforming the PA heptamer into a pore that releases the active enzymes EF (an adenylate cyclase) and LF (a protease targeting MAPKKs) into the cytosol. Mouse anti Anthrax Protective Antigen antibody, clone C3 does not cross-react with the Lethal Factor of Bacillus anthracis, Yersinia pestis, Francisella tularensis or Toxoplasma gondii. The antibody recognizes both the 83kDa and 63kDa truncated form of PA.
Tested Reactivity	Bacteria
Tested Application	ELISA, WB
Host	Mouse
Clonality	Monoclonal
Clone	C3
Isotype	IgG1
Target Name	Bacillus anthracis protective antigen
Species	Bacteria
Immunogen	Highly purified protective antigen of Bacillus anthracis.
Conjugation	Un-conjugated

### Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.09% Sodium azide.

<b>Preservative</b>	0.09% Sodium azide
<b>Concentration</b>	1 mg/ml
<b>Storage instruction</b>	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
<b>Note</b>	For laboratory research only, not for drug, diagnostic or other use.