

Datasheet: MCA2796

Description:	MOUSE ANTI ANTHRAX PROTECTIVE ANTIGEN
Specificity:	ANTHRAX PROTECTIVE ANTIGEN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C3
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Bacterial
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Highly purified protective antigen of <i>Bacillus anthracis</i> .
External Database Links	<p>UniProt: P13423 Related reagents</p> <p>Entrez Gene: 3361714 pxo1_110 Related reagents</p>
Synonyms	pag
RRID	AB_1100460
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Anthrax Protective Antigen antibody, clone C3 recognizes the Protective Antigen of the anthrax toxin. <i>Bacillus anthracis</i> 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.</p> <p>Mouse anti Anthrax Protective Antigen antibody, clone C3 does not cross-react with the Lethal Factor of <i>Bacillus anthracis</i>, <i>Yersinia pestis</i>, <i>Francisella tularensis</i> or <i>Toxoplasma gondii</i>. The antibody recognizes both the 83kDa and 63kDa truncated form of PA.</p>
References	1. Barth H, <i>et al</i> (2004) Binary bacterial toxins: biochemistry, biology, and applications of common Clostridium and Bacillus proteins. Microbiol Mol Biol Rev. 68:373-402
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA2796>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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