

## Datasheet: MCA2597

<b>Description:</b>	MOUSE ANTI CLOSTRIDIUM DIFFICILE TOXIN A
<b>Specificity:</b>	CLOSTRIDIUM DIFFICILE TOXIN A
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	5155
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/20 - 1/200
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence			▪	

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.

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

## Concentrations

Immunogen	<i>Clostridium difficile</i> toxin A.
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## External Database Links

### UniProt:

[P16154](#)

[Related reagents](#)

Synonyms	tcdA
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RRID	AB_808511
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## Specificity

**Mouse anti *Clostridium difficile* toxin A antibody, clone 5155** recognizes *Clostridium difficile* toxin A. No reaction is observed with *Clostridium difficile* toxin B, tetanus toxoid, *Pseudomonas aeruginosa* and *Yersinia enterocolitica*

*Clostridium difficile* is a gram-positive motile bacterium which is the leading cause of diarrhoea in developed countries. The incidence of disease in humans varies greatly with age, spore density and the administration of antibiotics.

Toxin A (TcdA) is a large exotoxin which is an essential virulence factor for *C. difficile* infection. TcdA has a molecular mass of ~308 kDa and is a glucosyltransferase, which irreversibly inactivates the Ras family of small GTPases to disrupt many important signalling pathways.

## References

1. Voth, D.E. & Ballard, J.D. (2005) *Clostridium difficile* toxins: mechanism of action and role in disease. [Clin Microbiol Rev. 18 \(2\): 247-63.](#)

## Storage

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

## Guarantee

12 months from date of despatch

## Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2597>  
10040

## Regulatory

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
 Goat Anti Mouse IgG (STAR76...) [RPE](#)  
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
 Rabbit Anti Mouse IgG (STAR9...) [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 (STAR70...) [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://bio-rad-antibodies.com/datasheets)  
 'M421854:230731'

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