

Datasheet: MCA2605

**BATCH NUMBER 169159**

<b>Description:</b>	MOUSE ANTI HUMAN C3c
<b>Specificity:</b>	C3c
<b>Other names:</b>	COMPLEMENT COMPONENT 3c
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	013E-498.2.3 (10-02A)
<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)	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
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.

**(1)Clone 10-02A binds both C3c and C3 and so is not suitable for all ELISA applications.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from ascites
<b>Buffer Solution</b>	Borate buffered saline

<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Current, batch-specific concentration 1.2 mg/ml
<b>Immunogen</b>	Human C3 from normal serum, highly purified by chromatography.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01024</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">718</a>    C3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CPAMD1
<b>RRID</b>	AB_844526
<b>Specificity</b>	<p><b>Mouse anti human C3c, clone 013E-498.2.3 (10-02A)</b>, recognizes the ~135 kDa complement component 3c present in serum. C3c is generated over the course of complement activation, where convertase C4b2a (classical pathway) and convertase C3bBb (alternative pathway) cleave C3 to C3b and C3a. C3b is further degraded into iC3b and C3dg/C3d. iC3b is then slowly cleaved (possibly by factor I) to form C3c (beta chain + alpha' chain fragment 1 + alpha' chain fragment 2), C3dg and C3f.</p> <p>C3 is crucial in the induction of tolerance generated when an antigen is introduced into immunoprivileged sites and this is exploited by pathogens and cancer cells to evade the immune system by inhibiting complement activation.</p>
<b>Histology Positive Control Tissue</b>	Kidney from post streptococcal glomerulonephritis patients.
<b>References</b>	1. Sica, M. <i>et al.</i> (2017) Eculizumab treatment: stochastic occurrence of C3 binding to individual PNH erythrocytes. <a href="#">J Hematol Oncol. 10 (1): 126.</a>
<b>Further Reading</b>	1. Janssen, B.J. <i>et al.</i> (2005) Structures of complement component C3 provide insights into the function and evolution of immunity. <a href="#">Nature. 437 (7058): 505-11.</a>
<b>Storage</b>	<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>
<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
<b>Health And Safety</b>	Material Safety Datasheet documentation #10077 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA2605>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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)  
'M415993:230124'

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