

## Datasheet: MCA6110

<b>Description:</b>	MOUSE ANTI HUMAN C3
<b>Specificity:</b>	C3
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AB01-3B4
<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
ELISA		▪		
Western Blotting	▪			1/1000

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>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Source</b>	CHO-S
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human C3 (Gly1200-Asn1663), Swiss-Prot: <a href="#">P01024</a>

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P01024</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">718</a> C3 <a href="#">Related reagents</a>
<b>Synonyms</b>	CPAMD1
<b>Fusion Partners</b>	Spleen cells from mice immunized with BALB/c were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human C3 antibody, clone AB01-384</b> recognizes complement C3. C3 is a central component of the classical, alternate and lectin pathways in the complement cascade which forms part of the innate immune defenses.</p> <p>The central position of C3 in the cascade has led to the emergence of immune invasion strategies by many human pathogens, including <i>Staphylococcus aureus</i> which expresses 2 proteins that interfere with the activation of C3 (<a href="#">Garcia et al. 2012</a>). C3 Deficiencies in humans also show an increased susceptibility to bacterial infections in early childhood the development of autoimmune disease and kidney diseases (<a href="#">Ricklin et al. 2016</a>).</p> <p>Conversely, complement over-activation can result in various disease pathologies, including induction of inflammatory pathways causing tissue damage. With complements' role in various diseases, pharmaceutical and biotech companies have targeted the cascade for potential therapeutic targets in a range of immune and inflammatory diseases as well as in transplantation medicine (<a href="#">Ricklin et al. 2012</a>).</p> <p>C3 is activated via its' cleavage into fragments which have varying functions within the complement cascade.</p>
<b>Western Blotting</b>	Under reducing conditions the C3 alpha chain at an approximate molecular weight of 115 kDa and the C3c alpha chain fragment 2 at approximately 39 kDa can be detected by Western blotting. Under non reducing conditions the mature C3 band can be detected at a molecular weight of approximately 186 kDa
<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>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6110">https://www.bio-rad-antibodies.com/SDS/MCA6110</a> 10040

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)

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