

## Datasheet: MCA2644

<b>Description:</b>	MOUSE ANTI HUMAN C7
<b>Specificity:</b>	C7
<b>Other names:</b>	COMPLEMENT COMPONENT 7
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	030-113.7.5.4
<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	▪			
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.

<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</b>	Current, batch-specific concentration 1.0 mg/ml

## Concentrations

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**Immunogen** Purified human C7.

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## External Database Links

**UniProt:**

[P10643](#)   [Related reagents](#)

**Entrez Gene:**

[730](#)   C7   [Related reagents](#)

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**RRID** AB\_2067432

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## Specificity

**Mouse anti Human C7 antibody, clone 030-113.7.5.4** recognises complement component 7 (C7), a 110 kDa glycoprotein present in the blood serum. The factor I domain of C7 binds the C terminus of the C5 alpha-chain, acting as a membrane anchor. This enables the assembly of the complement membrane attack complex (MAC) and consequent complement lytic activity. C7 deficiency is associated with increased susceptibility to recurrent infections, in particular by *Neisseria meningitides*.

Mouse anti Human C7 antibody, clone 030-113.7.5.4 does not recognise membrane bound complement membrane attack complex.

Mouse anti Human C7 antibody, clone 030-113.7.5.4 inhibits lysis of sensitised sheep erythrocytes.

Removal of Sodium Azide is recommended prior to use in functional assays.

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## References

1. Langer, F. *et al.* (2013) Rapid activation of monocyte tissue factor by antithymocyte globulin is dependent on complement and protein disulfide isomerase. [Blood. 121 \(12\): 2324-35.](#)

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## Further Reading

1. Thai, C.T. & Ogata, R.T. (2004) Complement components C5 and C7: recombinant factor I modules of C7 bind to the C345C domain of C5. [J Immunol. 173 \(7\): 4547-52.](#)  
2. Debard, A.L. *et al.* (2005) Fcγ3b and complement component C7 codeficiency in a patient with recurrence of fulminant meningococcal septic shock. [Clin Infect Dis. 40 \(11\): 1679-83.](#)

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## 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.

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## Guarantee

Guaranteed until date of expiry. Please see product label.

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## Health And Safety Information

Material Safety Datasheet documentation #10077 available at:

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <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>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

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

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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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