

## Datasheet: MCA6159GA

<b>Description:</b>	MOUSE ANTI HUMAN C1s
<b>Specificity:</b>	C1s
<b>Other names:</b>	Complement C1s subcomponent
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	M81
<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	▪			

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>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

**Approx. Protein Concentrations** IgG concentration 0.1 mg/ml

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**External Database Links**

**UniProt:**  
[P09871](#)   [Related reagents](#)

**Entrez Gene:**  
[716](#) C1S   [Related reagents](#)

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**Specificity**

**Mouse anti Human C1s antibody, clone M81**, recognizes human C1s, a subcomponent of complement component 1 (C1). This antibody recognizes an epitope around the binding site of C1s, in the IV domain and/or the V of the gamma domain and detects active and inactive C1s.

C1 is a large inactive plasma complex containing one subunit of C1q, 2 subunits of C1r and 2 C1s subunits, which are non-covalently bound together. C1 is the first responder in the classical activation pathway in the complement cascade ([Noris & Remuzzi 2013](#)). The classical pathway is initiated when the C1q subunit comes into close proximity of the Fc regions of immunoglobulin's that have bound close together to an antigen fixed on the surface of a pathogen. This binding by C1q results in the auto-activation of C1r which subsequently releases active C1s units. The newly released active C1s cleaves C4 and C2 creating C4b and C2a which then help to generate C3 convertase to continue the cascade ([Janeway et al. 2001](#)).

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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**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6159GA>  
10040

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

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](#)

## 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://bio-rad-antibodies.com/datasheets)

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