

## Datasheet: MCA508G

<b>Description:</b>	MOUSE ANTI HUMAN COMPLEMENT FACTOR H
<b>Specificity:</b>	COMPLEMENT FACTOR H
<b>Other names:</b>	H FACTOR 1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-23
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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	▪			1/50 - 1/200
Immunoprecipitation	▪			
Western Blotting	▪			
Radioimmunoassays	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Primate, Mouse

Does not react with: Sheep, Rabbit, Bovine, Chicken, Pig

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

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>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Human complement factor H.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P08603</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3075</a>    CFH    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HF, HF1, HF2
<b>RRID</b>	AB_2080129
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the NS-O mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human Complement Factor H antibody, clone OX-23</b> recognizes intact human serum complement protein factor H, also known as H factor 1. Complement factor H is a 1213 amino acid ~155 kDa secreted glycoprotein bearing multiple disulphide bonds and is involved in the deactivation of C3b and dissociation of C3 convertase in the alternative complement pathway. Mouse anti Human Complement Factor H antibody, clone OX-23 also recognizes a ~43-49 kDa truncated form of factor H present at low level (1-5ug/ml) in plasma and urine.</p> <p>Mutations in the CFH gene can lead to the development of Complement Factor H deficiency (<a href="#">CFHD</a>) which can be asymptomatic, present with recurrent bacterial infections or renal failure (<a href="#">Ault et al. 1997</a>). Mutations can also lead to development of Basal laminar drusen (<a href="#">BLD</a>), the deposition of extracellular deposits accumulating below the retinal pigment epithelium on Bruch membrane which can ultimately lead to vision loss (<a href="#">Boon et al. 2008</a>). Additionally, mutations in the CFH gene can lead to increased susceptibility to Hemolytic uremic syndrome atypical 1 (<a href="#">AHUS1</a>) or Macular degeneration, age-related, 4 (<a href="#">ARMD4</a>).</p> <p>Mouse anti Human Complement Factor H antibody, clone OX-23 has been used successfully for the determination of levels of bound murine factor H in a sandwich ELISA (<a href="#">Daniels-Treffandier et al. 2016</a>).</p>

<b>References</b>	<ol style="list-style-type: none"> <li>1. Alsenz, J. <i>et al.</i> (1985) Structural and functional analysis of the complement component factor H with the use of different enzymes and monoclonal antibodies to factor H. <a href="#">Biochem J. 232 (3): 841-50.</a></li> <li>2. Fontaine, M. <i>et al.</i> (1989) Truncated forms of human complement factor H. <a href="#">Biochem J. 258 (3): 927-30.</a></li> <li>3. Daniels-Treffandier, H. <i>et al.</i> (2016) Impact of Reducing Complement Inhibitor Binding on the Immunogenicity of Native <i>Neisseria meningitidis</i> Outer Membrane Vesicles. <a href="#">PLoS One. 11 (2): e0148840.</a></li> <li>4. Kelly, U. <i>et al.</i> (2010) Heparan sulfate, including that in Bruch's membrane, inhibits the complement alternative pathway: implications for age-related macular degeneration. <a href="#">J Immunol. 185 (9): 5486-94.</a></li> <li>5. Smith J <i>et al.</i> (2007) Genes expressed by both mesangial cells and bone marrow-derived cells underlie genetic susceptibility to crescentic glomerulonephritis in the rat. <a href="#">J Am Soc Nephrol. 18 (6): 1816-23.</a></li> <li>6. Clark, S.J. <i>et al.</i> (2014) Identification of factor H-like protein 1 as the predominant complement regulator in Bruch's membrane: implications for age-related macular degeneration. <a href="#">J Immunol. 193 (10): 4962-70.</a></li> <li>7. Martínez, A. <i>et al.</i> (2003) Mapping of the Adrenomedullin-Binding Domains in Human Complement Factor H. <a href="#">Hypertension Research. 26 (Suppl): S55-S59.</a></li> <li>8. Puraswani, M. <i>et al.</i> (2019) Clinical and Immunological Profile of Anti-factor H Antibody Associated Atypical Hemolytic Uremic Syndrome: A Nationwide Database. <a href="#">Front Immunol. 10: 1282.</a></li> </ol>
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<b>Storage</b>	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.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA508G">https://www.bio-rad-antibodies.com/SDS/MCA508G</a> 10040
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<b>Regulatory</b>	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="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)

## 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)  
'M437675:250318'

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