

## Datasheet: MCA878G

**BATCH NUMBER 162422**

<b>Description:</b>	MOUSE ANTI HUMAN IgG (CH3 DOMAIN)
<b>Specificity:</b>	IgG (CH3 DOMAIN)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	A57H
<b>Isotype:</b>	IgM
<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	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Haemagglutination	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgM - liquid
<b>Preparation</b>	Purified IgM prepared by thiosorb chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgM concentration 1.0mg/ml

**Immunogen** pFc' from purified protein of Heavy Chain Disease.

**External Database Links**

**UniProt:**

[P01857](#) [Related reagents](#)  
[P01859](#) [Related reagents](#)  
[P01834](#) [Related reagents](#)  
[P01861](#) [Related reagents](#)  
[P01860](#) [Related reagents](#)

**Entrez Gene:**

[3500](#) IGHG1 [Related reagents](#)  
[3501](#) IGHG2 [Related reagents](#)  
[3502](#) IGHG3 [Related reagents](#)  
[3503](#) IGHG4 [Related reagents](#)  
[3514](#) IGKC [Related reagents](#)

**RRID** AB\_567030

**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the NS0 mouse myeloma cell line.

**Specificity** **Mouse anti Human IgG (CH3 Domain) antibody, clone A57H** reacts with the CH3 domain of human IgG

**References**

1. Nelson, P.N. *et al.* (1990) Evaluation of monoclonal antibodies with putative specificity for human IgG allotypes. [Vox Sang. 59 \(3\): 190-7.](#)
2. Nelson, P.N. *et al.* (1994) Characterisation of putative monoclonal anti-G3m(u) and anti-G3m(g) reagents and their antigenic determinants. [Immunol Invest. 23 \(1\): 39-45.](#)
3. Komatsuda, A. *et al.* (2008) Monoclonal immunoglobulin deposition disease associated with membranous features. [Nephrol Dial Transplant. 23 \(12\): 3888-94.](#)
4. Thomson, C.A. *et al.* (2011) Somatic Diversity in CDR3 Loops Allows Single V-Genes To Encode Innate Immunological Memories for Multiple Pathogens. [J Immunol. 186: 2291-8.](#)
5. Komatsuda, A. *et al.* (2013) Proliferative glomerulonephritis with discrete deposition of monoclonal immunoglobulin  $\gamma$ 1 C(H) 2 heavy chain and  $\kappa$  light chain: A new variant of monoclonal immunoglobulin deposition disease. [Pathol Int. 63: 63-7.](#)
6. Ruffini, P.A. *et al.* (2014) Targeted DNA vaccines eliciting crossreactive anti-idiotypic antibody responses against human B cell malignancies in mice. [J Transl Med. 12: 207.](#)
7. Nacka-Aleksić M *et al.* (2015) Sexual dimorphism in the aged rat CD4+ T lymphocyte-mediated immune response elicited by inoculation with spinal cord homogenate. [Mech Ageing Dev. 152: 15-31.](#)
8. Kato, H. *et al.* (2015) Rapid Deterioration of the Renal Function Caused by the Coexistence of Intratubular Amyloidosis and Myeloma Cast Nephropathy. [Intern Med. 54 \(23\): 3023-8.](#)
9. Grodeland, G. *et al.* (2016) Antigen Targeting to Human HLA Class II Molecules Increases Efficacy of DNA Vaccination. [J Immunol. 197 \(9\): 3575-85.](#)

10. Baranowska, M. *et al.* (2015) Targeting of nucleoprotein to chemokine receptors by DNA vaccination results in increased CD8(+)-mediated cross protection against influenza. [Vaccine. 33 \(49\): 6988-96.](#)
11. Braathen, R. *et al.* (2018) The Magnitude and IgG Subclass of Antibodies Elicited by Targeted DNA Vaccines Are Influenced by Specificity for APC Surface Molecules [ImmunoHorizons. 2 \(1\): 38-53.](#)
12. Grodeland, G. *et al.* (2020) Targeting of HA to chemokine receptors induces strong and cross-reactive T cell responses after DNA vaccination in pigs. [Vaccine. 38 \(6\): 1280-5.](#)

<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<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/MCA878G">https://www.bio-rad-antibodies.com/SDS/MCA878G</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)
- Human Anti Mouse IgM (HCA040...) [FITC](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

<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://www.bio-rad-antibodies.com/datasheets)  
'M395824:220519'

Printed on 25 Mar 2023