

Datasheet: MCA878G

Description:	MOUSE ANTI HUMAN IgG (CH3 DOMAIN)
Specificity:	IgG (CH3 DOMAIN)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	A57H
Isotype:	IgM
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified IgM - liquid
Preparation	Purified IgM prepared by thiosorb chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	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](#)

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

Immunohistology This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.

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 γ 1 C(H) 2 heavy chain and κ 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. Sep 26. pii: 1600893. \[Epub ahead of print\]](#)
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.](#)

Storage Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR86...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgM (STAR138...)	Alk. Phos.
Human Anti Mouse IgM (HCA040...)	FITC , HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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