

Datasheet: MCA878G

BATCH NUMBER 153171

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](#)

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 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. 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.](#)

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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA878G 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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
'M372129:200619'

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