

Datasheet: MCA4774

Description:	MOUSE ANTI HUMAN IgG1 (Fc) (CH2 DOMAIN)
Specificity:	IgG1 (Fc) (CH2 DOMAIN)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	NL16
Isotype:	IgG1
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 (1)	■			
Immunohistology - Paraffin		■		
ELISA	■			
Immunoprecipitation			■	
Western Blotting	■			
Immunodiffusion		■		

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.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human IgG1 myeloma protein,
External Database Links	UniProt:

Entrez Gene:

[3500](#) IGHG1 [Related reagents](#)

Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the P3-NS1/Ag1 plasmacytoma cell line.
Specificity	Mouse anti Human IgG1-Fc-CH2 antibody, clone NL16 recognises an epitope within the CH2 domain of the Fc region of human IgG1.
References	1. Lowe, J. <i>et al.</i> (1982) Monoclonal antibodies (McAbs) to determinants on human gamma chains: properties of antibodies showing subclass restriction or subclass specificity. Immunology. 47: 329-36. 2. Komatsuda, A. <i>et al.</i> (2013) Proliferative glomerulonephritis with discrete deposition of monoclonal immunoglobulin γ1 C(H) 2 heavy chain and κ light chain: A new variant of monoclonal immunoglobulin deposition disease. Pathol Int. 63: 63-7. 3. Kato, H. <i>et al.</i> (2015) Rapid Deterioration of the Renal Function Caused by the Coexistence of Intratubular Amyloidosis and Myeloma Cast Nephropathy. Intern Med. 54 (23): 3023-8.
Further Reading	1. Jefferis, R. <i>et al.</i> (1985) Evaluation of Monoclonal Antibodies having specificity for Human IgG subclasses. Results of an IUIS/WHO collaborative study. Immunology Letters. 10: 223-252. 2. Hussain, R. <i>et al.</i> (1986) Use of monoclonal antibodies to quantify subclasses of Human IgG. J. Immunol. Methods. 93: 89-96.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. 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 available at: Material Safety Datasheet Documentation #10040 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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

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