

Datasheet: MCA2603 BATCH NUMBER 180425

Description:	MOUSE ANTI HUMAN C1q		
Specificity:	C1q		
Other names:	COMPLEMENT COMPONENT 1q		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	3R9/2		
Isotype:	lgG1		
Quantity:	0.1 ml		

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	•			1:500 - 1:1000
ELISA	•			
Western Blotting	•			
Immunofluorescence	•			

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Borate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein	1.0 mg/ml

Concentrations

Immunogen	Globular head domain of C1q, purified from human plasma.	
External Database Links	UniProt: P02745 Related reagents P02746 Related reagents P02747 Related reagents	
	Entrez Gene:	
	712 C1QA Related reagents	
	713 C1QB Related reagents	
	714 C1QC Related reagents	
Synonyms	C1QG	
RRID	AB_2067258	
Specificity	Mouse anti human C1q antibody, clone 3R9/2, recognizes human complement component 1 q (C1q), a ~156 kDa secreted protein. C1q associates with proenzymes C1r and C1s to form the calcium-dependent C1 complex, the first component of the serum complement system. C1q is composed of six A-, six B-chains and six C-polypeptide chains. Each chain contains a collagen-like region located near the N-terminus and a C-terminal globular region. These regions bind the Fc region of IgM and IgG molecules, initiating the classical pathway of complement activation. C1q deficiency has been associated with lupus erythematosus and glomerulonephritis (Troedson et al. 2013).	
Immunohistology	For best results Bio-Rad recommend <u>HISTAR</u> detection kits.	
Histology Positive Control Tissue	Kidney from patients with streptococcal glomerulonephritis.	
References	 Gershov, D. <i>et al.</i> (2000) C-Reactive protein binds to apoptotic cells, protects the cells from assembly of the terminal complement components, and sustains an antiinflammatory innate immune response: implications for systemic autoimmunity. <u>J Exp Med. 192 (9): 1353-64.</u> Petry, F. (1998) Molecular basis of hereditary C1q deficiency. <u>Immunobiology. 199 (2): 286-94.</u> Castellano, G. <i>et al.</i> (2010) Therapeutic targeting of classical and lectin pathways of complement protects from ischemia-reperfusion-induced renal damage. <u>Am J Pathol. 176: 1648-59.</u> Ma, W. <i>et al.</i> (2012) RAGE binds C1q and enhances C1q-mediated phagocytosis. <u>Cell Immunol. 274: 72-82.</u> Lachmann, N. <i>et al.</i> (2013) Systematic comparison of four cell- and Luminex-based methods for assessment of complement-activating HLA antibodies. <u>Transplantation. 95</u> 	

(5): 694-700.

6. Madhukaran, S.P. et al. (2015) Decidual expression and localization of human surfactant protein SP-A and SP-D, and complement protein C1q. Mol Immunol. 66 (2): 197-207.

7. Kashiwagi, N. et al. (2017) Method for measuring anti-drug antibody US Patent Application US20170315118A1

8. Cai, Y. et al. (2015) C1q protein binds to the apoptotic nucleolus and causes C1 protease degradation of nucleolar proteins. J Biol Chem. 290 (37): 22570-80.

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend

microcentrifugation before use.

Guarantee

18 months from the date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10077 available at:

https://www.bio-rad-antibodies.com/SDS/MCA2603

10077

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) **RPE**

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Goat Anti Mouse IgG (STAR76...) **RPE**

Rabbit Anti Mouse IgG (STAR13...) **HRP**

Goat Anti Mouse IgG (STAR70...) **FITC**

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) **FITC**

Goat Anti Mouse IgG (STAR77...) **HRP**

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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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 'M318562:180718'

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