

Datasheet: MCA2603 BATCH NUMBER 166215

Description:	MOUSE ANTI HUMAN C1q
Specificity:	C1q
Other names:	COMPLEMENT COMPONENT 1q
Format:	Purified
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody 004-43.X (3R9/2)
Product Type: Clone: Isotype:	Monoclonal Antibody 004-43.X (3R9/2) IgG1

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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		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 us	cessarily exclude its use in such procedures. Suggested working dilutions are given as					
	a guide only. It is recomn system using appropriate	nended th e negative	at the use /positive	er titrates the produc controls.	t for use in their own		
Target Species	Human						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites						
Buffer Solution	Borate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)						
Approx. Protein	Current, batch-specific co	oncentrati	on 1.09 n	ng/ml			

Concentrations

Immunogen	Globular head domain of C1q, purified from human plasma.
External Database Links	UniProt:P02745Related reagentsP02746Related reagentsP02747Related reagents
	Entrez Gene:712C1QARelated reagents713C1QBRelated reagents714C1QCRelated reagents
Synonyms	C1QG
RRID	AB_2067258
Specificity	 Mouse anti human C1q antibody, clone 004-43.X (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 <i>et al.</i> 2013).
Histology Positive Control Tissue	Kidney from patients with streptococcal glomerulonephritis
References	 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</u> <u>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> <u>(5): 694-700</u>. Cai, Y. <i>et al.</i> (2015) C1q protein binds to the apoptotic nucleolus and causes C1 protease degradation of nucleolar proteins. <u>J Biol Chem. 290 (37): 22570-80</u>. Madhukaran, S.P. <i>et al.</i> (2015) Decidual expression and localization of human surfactant protein SP-A and SP-D, and complement protein C1q. <u>Mol Immunol. 66 (2):</u> <u>197-207.</u> Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody <u>US Patent</u> <u>Application US20170315118A1</u>

Further Reading	 Petry, F. (1998) Molecular basis of hereditary C1q deficiency. <u>Immunobiology. 199 (2):</u> <u>286-94.</u> Schejbel, L. <i>et al.</i> (2011) Molecular basis of hereditary C1q deficiencyrevisited: 				
	identification of several novel disease-causing mutations. Genes Immun. 12 (8): 626-34.				
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.				
Guarantee	Guaranteed until date of expiry. Please see product label.				
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 Ar	Rabbit Anti Mouse IgG (STAR12) RPE						
Goat Ant	i Mouse IgG IgA IgM (STA	R87) <u>H</u>	<u>RP</u>				
Goat Ant	i Mouse IgG (STAR76)	<u>R</u>	PE				
Rabbit Ar	nti Mouse IgG (STAR13)) <u>H</u>	<u>RP</u>				
Goat Ant	i Mouse IgG (STAR70)	F	<u>FITC</u>				
Goat Ant	i Mouse IgG (H/L) (STAR1	I17) <u>A</u>	<u>k. Phos.</u> , <u>DyLight®488</u> ,	DyLight®550	,		
		D	yLight®650, DyLight®68	0, DyLight®8	<u>00</u> ,		
		F	<u>TC, HRP</u>				
Rabbit Ar	nti Mouse IgG (STAR9)	<u>F</u>	<u>TC</u>				
Goat Ant	i Mouse IgG (STAR77)	<u>H</u>	<u>RP</u>				
Goat Ant	i Mouse IgG (Fc) (STAR12	20) <u>F</u>	<u>TC, HRP</u>				
Recomn	nended Negative Cont	rols					
MOUSE Ig	G1 NEGATIVE CONTROL (<u>MCA928)</u>					
North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21		
America	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	o-rad.com	Email: antibody_sales_de@bio-rad.com		
To find a ba	atch/lot specific datasheet fo	or this prod	uct, please use our online	search tool at:	bio-rad-antibodies.com/datasheets		

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