Datasheet: MCA2603 BATCH NUMBER 167057

Description:	MOUSE ANTI HUMAN C1q
Specificity:	C1q
Other names:	COMPLEMENT COMPONENT 1q
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	004-43.X (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							
	e e	communications from the originators. Please refer to references indicated for further						
		information. For general protocol recommendations, please visit www.bio-						
	rad-antibodies.com/protocols.							
	<u></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 use in such procedures. Suggested working dilutions are given as							
	system using appropriate			•				
	system using appropriate	negative	positive	00111013.				
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	<0.1% Sodium Azide (NaN ₃)							
Approx. Protein	Current, batch-specific concentration 1.1 mg/ml							

Concentrations

Immunogen	Globular head domain of C1q, purified from human plasma.					
External Database Links	UniProt:					
Links	P02745 Related reagents					
	P02746 Related reagents					
	P02747 Related reagents					
	<u> </u>					
	Entrez Gene:					
	712 C1QA Related reagents					
	713 C1QB Related reagents					
	714 C1QC Related reagents					
Synonyms	C1QG					
RRID	AB_2067258					
Specificity						
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					
	(<u>Troedson <i>et al.</i> 2013</u>).					
Histology Positive Control Tissue	Kidney from patients with streptococcal glomerulonephritis					
References	1. Castellano, G. et al. (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>					
	2. Ma, W. et al. (2012) RAGE binds C1q and enhances C1q-mediated phagocytosis. Cell					
	Immunol. 274: 72-82.					
	3. Lachmann, N. et al. (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>					
	4. Cai, Y. et al. (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>					
	5. 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):					
	<u>197-207.</u>					
	6. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody <u>US Patent</u>					
	Application US20170315118A1					

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. <u>Genes Immun. 12 (8)</u>: 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	nti Mouse IgG (STAR12)	RPE							
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>									
Goat Ant	i Mouse IgG (STAR76)	<u>RP</u>	RPE						
Rabbit Ar	nti Mouse IgG (STAR13)	HRP							
Goat Ant	i Mouse IgG (STAR70)	FITC							
Goat Ant	Goat Anti Mouse IgG (H/L) (STAR117) <u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,								
		Dyl	Light®650, DyLight®68	0, <u>DyLight®8</u>	<u>00,</u>				
		<u>FIT</u>	<u>C, HRP</u>						
Goat Ant	Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC</u> , <u>HRP</u>								
Goat Ant	Goat Anti Mouse IgG (STAR77) <u>HRP</u>								
Rabbit Ar	Rabbit Anti Mouse IgG (STAR9) <u>FITC</u>								
Recommended Negative Controls									
MOUSE IgG1 NEGATIVE CONTROL (MCA928)									
North & South	Tel: +1 800 265 7376 Worldv	vide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21				
America	Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com		Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio	-rad.com	Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com				
	0		0		2				
To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets /M423494:231017'									
			WI720707.201017						

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