

C1q Monoclonal Antibody (3R9/2)

Catalog Number MA1-83963

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	Assay-dependent
Clone	3R9/2	Flow Cytometry (Flow)	Assay-dependent
Immunogen	Globular head domain of C1q, purified from human plasma.	Immunohistochemistry (Frozen) (IHC (F))	1:500-1:1,000
Conjugate	Unconjugated	Western Blot (WB)	Assay-dependent
Form	Liquid	Immunocytochemistry (ICC/IF)	Assay-dependent
Concentration	1.1 mg/mL	Published Applications	
Purification	Protein A	ELISA (ELISA)	See 1 publications below
Storage buffer	BBS, pH 8.4	Miscellaneous PubMed (Misc)	See 1 publications below
Contains	< 0.1% sodium azide	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

A suggested positive control for immunohistochemical applications for this product is kidney tissue from patients with streptococcal glomerulonephritis. Strong staining was observed in the glomeruli and in some cases the peritubular capillary (potentially clinically significant). Mouse anti human C1q antibody, clone 004-43.X (3R9/2), recognizes human complement component 1 q (C1q), a approximately 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.

Background/Target Information

C1q is a sub-component of complement C1. C1q associates with complement components C1r and C1s, which are required for the progression of the proteolytic complement cascade. Deficiency of C1q has been associated with lupus erythematosus and glomerulonephritis. C1q is composed of 18 polypeptide chains: six A-chains, six B-chains, and six C-chains. Each chain contains a collagen-like region located near the N terminus and a C-terminal globular region. The A-, B-, and C-chains are arranged in the order A-C-B on chromosome 1.

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PubMed References For C1q Monoclonal Antibody (3R9/2)

1 ELISA References

Species / Dilution	Summary
Human / Not Cited	<p>MA1-83963 was used in an ELISA assay to provide a novel approach for generating therapeutic antibodies devoid of any ADCC and CDC activities with potentially lower immunogenicity.</p> <p>mAbs (2021; 12:) "Engineered Fc-glycosylation switch to eliminate antibody effector function." Author(s):Zhou Q,Jaworski J,Zhou Y,Valente D,Cotton J,Honey D,Boudanova E,Beninga J,Rao E,Wei R,Mauriac C,Pan C, Park A,Qiu H PubMed Article URL:http://dx.doi.org/10.1080/19420862.2020.1814583</p>

1 Miscellaneous PubMed References

Species / Dilution	Summary
Not Applicable / Not Cited	<p>MA1-83963 was used in immunocytochemistry and western blot to study the expression and distribution of three secretory carrier membrane proteins</p> <p>Journal of cell science (1997; 110 (Pt 17): 2099) "Three mammalian SCAMPs (secretory carrier membrane proteins) are highly related products of distinct genes having similar subcellular distributions." Author(s):Singleton DR,Wu TT,Castle JD PubMed Article URL:http://dx.doi.org/10.1242/jcs.110.17.2099</p>

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