

# C1q Monoclonal Antibody (JL-1), FITC

Catalog NumberMA1-40313

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Mouse / IgG2b	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	1:50
Clone	JL-1	Functional Assay (FN)	1:50
Immunogen	Purified Mouse C1q	Immunohistochemistry (Frozen) (IHC (F))	1:50
Conjugate	FITC	Western Blot (WB)	1:50
Form	Liquid	Published Applications	
Concentration	0.1 mg/mL	Flow Cytometry (Flow)	See 1 publications below
Purification	Protein G	* 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 buffer	PBS with 1% BSA		
Contains	0.02% sodium azide		
Storage Conditions	4° C, store in dark		

## Product specific information

MA1-40313 detects C1q from mouse, rat, and human samples. MA1-40313 has been successfully used in immunofluorescence, immunohistochemistry (frozen), ELISA, functional assays and Western blot applications. The MA1-40313 immunogen is Purified Mouse C1q. Positive control: Spleen and kidney tissue of wild-type mice; Negative control: Spleen and kidney tissue of C1q -/- mice

## 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 (JL-1), FITC

1 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	MA1-40313 was used in Flow cytometry/Cell sorting to indicate that there is a conserved population of innate immune cells across multiple species that have been defined as resident macrophages in the mouse.
	Journal of the American Society of Nephrology : JASN ( 2019; 30: 767)
	<b>"Single-Cell RNA Sequencing Identifies Candidate Renal Resident Macrophage Gene Expression Signatures across Species."</b> Author(s):Zimmerman KA,Bentley MR,Lever JM,Li Z,Crossman DK,Song CJ,Liu S,Crowley MR,George JF,Mrug M,Yoder BK PubMed Article URL: <a href="http://dx.doi.org/10.1681/ASN.2018090931">http://dx.doi.org/10.1681/ASN.2018090931</a>

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