ARG22564
anti-C1q antibody [3R9/2]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3R9/2] recognizes C1q This antibody recognizes human complement component 1 q (C1q), a 156kDa 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).
Tested Reactivity	Hu
Tested Application	ELISA, FACS, ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	3R9/2
Isotype	IgG1
Target Name	C1q
Species	Human
Immunogen	Globular head domain of C1q, purified from human plasma.
Conjugation	Un-conjugated
Alternate Names	C1QG; C1Q-C; Complement C1q subcomponent subunit C

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
FACS	Assay-dependent
ICC/IF	Assay-dependent
IHC-Fr	1:500 - 1:1000
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	BBS and 0.09% Sodium azide.

Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	C1QC
Gene Full Name	complement component 1, q subcomponent, C chain
Background	This gene encodes a major constituent of the human complement subcomponent C1q. C1q associates with C1r and C1s in order to yield the first component of the serum complement system. A deficiency in 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. This gene encodes the C-chain polypeptide of human complement subcomponent C1q. Alternatively spliced transcript variants that encode the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Function	C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. The collagen-like regions of C1q interact with the Ca(2+)-dependent C1r(2)C1s(2) proenzyme complex, and efficient activation of C1 takes place on interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibody present in immune complexes. [UniProt]
Calculated Mw	26 kDa
PTM	O-linked glycans consist of Glc-Gal disaccharides bound to the oxygen atom of post-translationally added hydroxyl groups.