Monoclonal Antibodies: Murine Monoclonal Anti-Human C1q Protein

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Background
Circulating C1q protein is a hexamer of three unique protein subunits (A,B, and C) with molecular weights of 29, 26 and 22 kDa respectively. The assembled hexamer contains a central core or stalk, six collagen-like domains and six globular protein heads. These globular or terminal regions are responsible for the binding of immunoglobulin (IgM, and IgG). As part of the C1 complex (together with two copies each of C1r and C1s) C1q is central to activation of the classical complement pathway.

The specificity of this monoclonal to purified human C1q was determined Quidel’s monoclonal antibodies to complement antigens were prepared using standard techniques. They are purified from mouse ascites fluid via protein A affinity chromatography. Quidel’s Monoclonal anti human C1q was raised against highly pure, human C1q using standard techniques.

The specificity of the monoclonal antibody was established via a series of immunoassays utilizing highly purified C1q and C1q fragments. Firstly, the antibody was shown by ELISA to bind to purified C1q and C1q globular head protein immobilized in microtiter wells. Secondly, free (unbound) C1q and globular head and human serum but not other C1q fragments were shown (via inhibition EIA) to inhibit the binding of this antibody to immobilized C1q. Similarly, using radio-labeled C1q this antibody was shown to immuno-precipitate C1q using protein A-bearing bacteria.

Applications
Please contact Quidel Specialty Products Technical Services for application specific information.

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<th>EIA</th>
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<th>IHC</th>
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Specifications
Catalog Number: A201
Concentration: ≥1.0 mg/ml
Purity: >95% by SDS PAGE
Volume/Vial: 100 µl
Storage: Short term (30 days) 4°C
Long term at or below -20°C
Buffer: Borate Buffered Saline (pH 8.4 ± 0.2)
Isotype: 1gG1k

References

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