

## C1Q

### Mouse Anti-Human C1q, Globular Head Region Specific, mAb

|                                 |   |                  |             |
|---------------------------------|---|------------------|-------------|
| <b>Catalog No.</b>              | CMC444  | <b>Quantity:</b> | 100 $\mu$ l |
| <b>Description:</b>             | 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.  |                  |             |
| <b>Specificity:</b>             | C1q globular head region<br>The specificity of the monoclonal antibody was established via a series of immunoassays utilizing highly purified C1q and C1q fragments. The antibody was shown by ELISA to bind to purified C1q and C1q globular head protein immobilized in microtiter wells. In addition, 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 immunoprecipitate C1q using protein A-bearing bacteria. |                  |             |
| <b>Immunogen:</b>               | Highly pure, human C1q  |                  |             |
| <b>Purity:</b>                  | > 85% by SDS-PAGE   |                  |             |
| <b>Concentration:</b>           | $\geq$ 1.0 mg/mL  |                  |             |
| <b>Host:</b>                    | Mouse   |                  |             |
| <b>Isotype:</b>                 | IgG1 kappa  |                  |             |
| <b>Source:</b>                  | Purified from mouse ascites.  |                  |             |
| <b>Formulation:</b>             | Borate buffered saline, pH 8.4 containing 0.1% sodium azide   |                  |             |
| <b>Purification:</b>            | Protein A affinity chromatography.  |                  |             |
| <b>Applications:</b>            | <b>ELISA:</b> suggested dilution > 1:16,000<br><b>FACS:</b> suggested dilution >1:50<br><b>IHC:</b> suggested dilution >1:1,000<br>Optimal concentration should be determined by the user for each specific application.  |                  |             |
| <b>Storage &amp; Stability:</b> | Store at - 20°C to -80°C. Upon initial thaw, prepare working aliquots and store at - 20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>   |                  |             |

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



**Cell Sciences**<sup>®</sup>  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)