Monoclonal Antibodies: Murine Anti-Human C5

For Research Use Only. Not for use in Diagnostic Procedures.

Background
Complement protein, C5 is unique to the Terminal Complement Pathway. The C5 protein is composed of two subunits (Alpha – 115,000 kD and Beta – 75,000 kD) and is present in serum at a concentration of approximately 70 mg/L. Under normal conditions, activation of either the Classical, Lectin or Alternative Complement Pathways generates the C5 convertase which is capable of cleaving C5 into two fragments – C5a (a potent anaphylatoxin) and C5b. Together with other proteins of the Terminal Pathway, C5b forms the Membrane Attack Complex (MAC) or Terminal Complement Complex (TCC) at the surface of a target cell; resulting in cell lysis.

Specificity
The specificity of the monoclonal antibody was established by ELISA and radioimmunoassay (RIA). Using RIA, this monoclonal antibody was shown to bind radiolabeled C5 protein. Specificity was confirmed by functional inhibition of C5. In this study, ~17 ng of the Anti-Human C5 monoclonal antibody gave 50% inhibition of the lysis of antibody-coated sheep erythrocytes (EA) in an assay designed to measure C5 hemolytic function. The assay used highly purified C5 protein, EA and normal human serum which was immunochemically depleted of C5. The antibody does not recognize TCC deposited on membranes.

Applications

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<th>EIA</th>
<th>RIA</th>
<th>IHC</th>
<th>WB</th>
<th>FACS</th>
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N/T = Not tested.

Species Cross Reactivity: Human, baboon.

References
1 On file with Quidel Corporation.

Specifications
Catalog Number: A217
Concentration: 1.0-1.2 mg/ml
Purity: ≥ 95% by SDS PAGE
Volume/Vial: 100 µl
Storage:
≤ 30 Days: 2-8°C
> 30 Days: ≤ –20°C
Buffer: Borate Buffered Saline (pH 8.4 ± 0.2)
Isotype: IgG, k

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