

# Complement

## 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

EIA <sup>1</sup>	RIA	IHC	WB <sup>1</sup>	FACS <sup>2</sup>
>1:10,000	N/T	N/T	>1:1,000	>1:1,000

N/T = Not tested.

### 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<sub>1</sub>k

**Species Cross Reactivity:** Human, baboon.

### References

1 On file with Quidel Corporation.  
 2 Barilla-LaBarca, ML. et al. Role of membrane cofactor protein (Cd46) in regulation of C4b and C3b deposited on cells. J Immunol. 168(12):6298-6304 (2002).

### Ordering and Additional Information

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