

# Complement

## Monoclonal Antibodies: Murine Anti-Human C9

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

### Background

Complement protein, C9 is a single-chain glycoprotein with a molecular weight of 71 kD. The C9 protein is present in serum at a concentration of approximately 55 µg/ml. Upon activation of the Classical, Lectin or Alternative Complement Pathways, C9 becomes integrated into the Terminal Complement Complex (TCC).

The Terminal Complement Complex (TCC) is the general term for both membrane bound C5b-9 (or Membrane Attack Complex; MAC) and fluid phase SC5b-9. Assessment of the TCC is an excellent marker for qualifying the extent of Terminal Pathway activation *in vivo* or *in vitro*. TCC can be deposited on the surface of transformed cells, biomaterials, and a variety of other surfaces.

### Specificity

The specificity of the monoclonal antibody for immobilized C9 was established by ELISA and radioimmunoassay (RIA). Subsequent experiments established that the antibody will immunoprecipitate highly purified, radiolabeled C9 protein. This antibody does not bind C9 determinants exposed in the assembled MAC deposited on cell membranes. It does not inhibit the lysis of antibody-coated sheep erythrocytes in an assay designed to measure specific C9 hemolytic activity.

### Applications

EIA <sup>1</sup>	RIA	IHC	WB	FACS
>1:32,000	N/T	N/T	N/T	N/T

N/T = Not tested.

### Specifications

Catalog Number:	A223
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>2b</sub> k

**Species Cross Reactivity:** Human, baboon, bovine, chicken, guinea pig, hamster, horse.

### References

<sup>1</sup> On file with Quidel Corporation.

### Ordering and Additional Information

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