

Complement

Monoclonal Antibodies: Murine Anti-Human C7

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

Background

Complement component C7 is a single-chain glycoprotein with a molecular weight of 95 kD. C7 protein is present in human plasma at an approximate concentration of 55 µg/ml. Upon activation of the lectin, classical or alternative pathways, C7 becomes integrated into the terminal complement complex.

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

Specificity

The specificity of the monoclonal antibody for the C7 protein was established by ELISA and radioimmunoassay (RIA). Confirmation of specificity was achieved by inhibition of C7 binding in a hemolytic assay. Approximately 6.5 ng of the anti-human C7 antibody was shown to inhibit the lysis of antibody-coated sheep erythrocytes in an assay designed to measure specific C7 hemolytic activity. The assay utilized hemolytically active C7 and normal human serum which had been immunochemically depleted of C7.

Applications

EIA ¹	RIA	IHC	WB ²	FACS
>1:2,800	N/T	N/T	>1:1,000	N/T

N/T = Not tested.

Specifications

Catalog Number:	A221
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 ₁ k

Species Cross Reactivity: Human, bovine, cat, dog, hamster, horse, rabbit, rat.

References

- 1 On file with Quidel Corporation.
- 2 Attia AS. et. al. Binding of vitronectin by the *Moraxella catarrhalis* UspA2 protein interferes with late stages of the complement cascade. *Infect Immun.* 73(3):1597-1611 (2006).

Ordering and Additional Information

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