

Complement

Monoclonal Antibodies: Murine Anti-Human C6

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

Background

Complement protein, C6 is a single-chain glycoprotein with a molecular weight of 108 kD. The C6 protein is present in serum at a concentration of approximately 60 µg/ml. Upon activation of the Classical, Lectin or Alternative Complement Pathways, C6 binds to C5b and 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 Complement protein, C6 was established by ELISA and radioimmunoassay (RIA). The antibody was also shown to bind isolated SC5b-9 and complement-lysed rabbit erythrocyte ghosts by indirect immunofluorescence.

Applications

EIA ¹⁻²	RIA	IHC	WB ³	FACS ⁴
>1:5,000	N/T	N/T	>1:1,000	>1:100

N/T = Not tested.

Specifications

Catalog Number:	A219
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, baboon, Cynomolgus macaque, Rhesus macaque.

References

- 1 On file with Quidel Corporation.
- 2 Thorgersen, EB. et al. Inhibition of complement and CD14 attenuates the Escherichia coli-induced inflammatory response in porcine whole blood. *Infect Immun.* 77(2):725-732 (2002).
- 3 Plested, JS. and Granoff, DM. Vaccine-induced opsonophagocytic immunity to Neisseria meningitidis group B. *Clin Vaccine Immunol.* 15(5):799-804 (2008).

4 Ragupathi, G. et al. Antibodies against tumor cell glycolipids and proteins, but not mucins, mediate complement-dependent cytotoxicity. *J Immunol.* 174(9):5706-5712 (2005).

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