

# Complement

## Monoclonal Antibodies: Murine Anti-Human C8

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

### Background

Complement component C8 is a plasma glycoprotein with a molecular weight of 150 kD. C8 protein is present in human plasma at a concentration of approximately 70 µg/mL.

Complement component C8 is unique to the Terminal Complement pathway. It is composed of three protein chains (α-65 kD, β-65 kD and γ-22 kD). Together with the other proteins of the Terminal pathway, C8 forms the Membrane Attack Complex or MAC.

The Terminal Complement Complex (TCC) is the general term for both membrane bound C5b-9 (the MAC) and fluid phase SC5b-9. C5b-9 is formed through activation of the Terminal pathway via either the Classical or Alternative Complement pathways. Assessment of the 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, and a variety of other surfaces.

### Specificity

The specificity of the monoclonal antibody was established via ELISA and RIA. This antibody was shown to bind immobilized C8 and immunoprecipitate highly purified, radiolabeled C8 protein. The antibody binds to C8 determinants exposed in the assembled MAC deposited on cell membranes.

### Applications

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

N/T = Not tested.

### Specifications

Catalog Number:	A249
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>2a</sub> k

### Species Cross Reactivity:

Human

### References

1 On file with Quidel Corporation.

### Ordering and Additional Information

To learn more about this and other Quidel products visit our website [quidel.com](http://quidel.com) or contact Technical Services at 1.800.874.1517

### Related Products

C8 Depleted Serum	A504
Polyclonal Anti-Human C8	A309
Purified Human C8 Protein	A406

**QUIDEL**<sup>®</sup>  
Specialty Products

RESEARCH TO RAPIDS<sup>®</sup>

### Worldwide Headquarters

10165 McKellar Court  
San Diego, CA 92121 USA  
[quidel.com](http://quidel.com)

For more information on our products and other Quidel locations, visit our website.  
800.874.1517 • 408.616.4301 • 858.431.3520 (fax)