

# Complement

## Polyclonal Antibodies: Chicken Anti-Human C3d (IgY)

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

### Background<sup>1</sup>

The human complement component C3 consists of two disulfide bonded subunits (Alpha 115,000 kD and Beta 75,000 kD). The concentration of C3 in serum is approximately 1.25 +/- 0.52 mg/ml. Under normal conditions, activation of the classical, lectin or alternative complement pathways leads to C3 convertases, which cleave C3 into two fragments C3a, an anaphylatoxin, and C3b. The C3b fragment has many biologic functions including promotion of phagocytosis and participation as a structural component of both the C3 and C5 convertase enzymes. These processes are under stringent control *in vivo*. One control mechanism involves a two-site cleavage of C3b by Factor I with the cooperation of Factor H or CR1 as cofactors. When cleaved in this manner, the biological functions of C3b are lost. The resulting protein is termed iC3b. iC3b can remain covalently bound to a target cell or bind CR3 receptors. It can be further broken down to C3c and C3d; C3d can interact with CR2 receptors.

### Applications<sup>2</sup>

EIA	RIA	WB	IHC	FACS
>1:1000	N/T	> 1:500	N/T	N/T

N/T = Not tested.

### Specifications

Catalog Number: A800  
 Concentration: 1.0-1.2 mg/ml  
 Purity: ≥ 85% by SDS PAGE  
 Volume/Vial: 100 µl  
 Storage: ≤ -20°C  
 Buffer: Phosphate Buffered Saline (pH 7.0 ± 0.2)

**Species Cross Reactivity:** Rat, dog, porcine, bovine, sheep, mouse, rhesus macaque, goat, hamster, and rabbit.

### References

1 Complement Second Edition; SKA Law and KBM Reid Eds Oxford University Press (1995) pp. 11-29.  
 2 Data on File at Quidel Corporation.

### Ordering and Additional Information

To learn more about this and other Quidel products visit our website [www.quidel.com](http://www.quidel.com) or contact Technical Services at 1.800.524.6318

### Related Products

Monoclonal Anti-Human C3 (C3c) A205  
 Monoclonal Anti-Human C3 (C3d) A207  
 Monoclonal Anti-Human iC3b (neoantigen) A209  
 Monoclonal Anti-Human C3d (neoantigen) A250  
 Polyclonal Antisera to Human C3 (Goat) A304



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