



Polyclonal Antibodies: Chicken Anti-Human SC5b-9 (IgY)

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

Specifications

Catalog Number: A802
Protein 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)

Background¹

The activation of complement by the classical, alternative or lectin pathways results in the cleavage of C5 to C5a and C5b, under normal conditions. A consequence of C5b generation, after sequential interaction with C6, C7 and C8, is the formation of the membrane attack complex (MAC) in cell membranes and downstream complement mediated cytotoxicity. MAC may be diverted by control proteins (e. g. Clusterin and S Protein) to form a soluble, lytically inert complex called SC5b-9. In any form, this macromolecular complex is referred to as Terminal Complement Complex or TCC. Since C5 is unique to the terminal complement cascade, activation of C5, as indicated by TCC levels, is an excellent marker for terminal complement activity *in vitro* or *in vivo*.

Preparation²

Quidel's IgY antibodies to complement antigens were prepared using standard techniques. Hens were immunized with highly purified SC5b-9 prepared at Quidel. The generated antibodies were isolated from egg yolks using standard salt precipitation techniques. The prepared polyclonal antibodies are buffer exchanged in Phosphate Buffered Saline without preservatives. The isolated antibodies were tested for purity by SDS-PAGE, specificity, and activity by EIA.

Applications³

EIA	RIA	IHC	WB	FACS
> 1:1000	Not Tested	Not Tested	Not Tested	Not Tested

Species Cross Reactivity

The ability of whole animal complement to inhibit binding of the antibody to solid phase purified human complement in an ELISA inhibition assay. Results versus a human control material are provided below. Unlisted animal sera have not been tested.

Human (+)	100%	n/a
Chicken (-)	0	n/a
Rat	52	Strong
Dog	64	Strong
Porcine	45	Moderate
Bovine	33	Moderate
Sheep	27	Weak
Mouse	46	Moderate
Rhesus Macaque	89	Strong
Goat	41	Moderate
Hamster	44	Moderate
Rabbit	38	Moderate

Related Products

A020 Quidel™ SC5b-9 Plus EIA Kit (U.S. and Canada Only)
A029 Quidel™ SC5b-9 Plus EIA Kit (Outside U.S. and Canada Only)
A100: Human Complement Standard
A234 Monoclonal anti-human SC5b-9

Ordering and Further Technical Information

To place an order or for technical assistance in the United States, please call (800) 524-6318, Monday through Friday, between 8:00 am and 5:00 pm, Pacific Time. Orders may also be placed by fax at (408) 616-4311 anytime. For orders placed outside the U.S. and Canada, contact your local Quidel distributor.

Information about Quidel, our affiliated distributors and our products is available online at www.quidel.com.

References

1. *Complement* Second Edition; SKA Law and KBM Reid Eds Oxford University Press (1995) pp. 11-29.
2. *Chicken Egg Yolk Antibodies, Production and Application, IgY-Technology* Schade, R. ed Springer Lab Manual (2001) pp. 85-88.
3. Data on file at Quidel Corporation.

