

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606

techsupport@origene.com

OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-346

Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

## AM01331PU-N Monoclonal Antibody to Complement SC5b-9 (TCC / MAC) -

**Purified** 

Alternate names: Membrane attack complex, Terminal complement complex

Quantity: 0.1 mg
Concentration: 1.0 mg/ml

Background: Both the classical and alternative complement pathways result in the formation of the

cytolysis inducing C5b-9 complex. This complex is composed of 190 kDa C5b which is bound to cells via 71 kDa C9. Sublytic assembly of C5b-9 on plasma membranes induces cell cycle activation and survival. The binding of C5b-9 to the 75 kDa Sprotein (or vitronectin) in the fluid phase prevents C5b-9 from assembling on the plasma membrane, deactivating it and forming the SC5b-9 complex. SC5b-9 is stable

in vitro and is therefore a reliable indicator of terminal complement pathway

activation.

Host / Isotype: Mouse / IgG2b

**Recommended Isotype** 

SM12P, AM03110PU-N

**Controls:** 

Clone: 3R2/0

**Format:** State: Liquid purified IgG fraction

Purification: Affinity Chromatography on Protein A

Buffer System: Borate buffered saline, pH8.4 containing 0.09% Sodium Azide as

preservative

Applications: ELISA.

Western Blot. Flow Cytometry.

Immunohistochemistry on Frozen Sections.

Recommended Positive Control: Kidney from post streptoccal glomerulonephritis

patients.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

**Specificity:** This antibody recognises the SC5b-9 complex of around 330 kDa.

Species: Human.

Other species not tested.

Add. Information: Removal of Sodium Azide is recommended prior to use in functional assays.

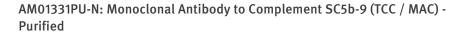
Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for

longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:** 1. Biesecker G. The complement SC5b-9 complex mediates cell adhesion through a

vitronectin receptor. J Immunol. 1990 Jul 1;145(1):209-14. PubMed PMID: 1694202. 2. Greenstein JD, Peake PW, Charlesworth JA. The kinetics and distribution of C9 and





SC5b-9 in vivo: effects of complement activation. Clin Exp Immunol. 1995 Apr;100(1):40-6. PubMed PMID: 7697921.

3. Rus H, Cudrici C, Niculescu F. C5b-9 complement complex in autoimmune demyelination and multiple sclerosis: dual role in neuroinflammation and neuroprotection. Ann Med. 2005;37(2):97-104. PubMed PMID: 16026117.