

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 S-protein (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 Controls:	SM12P, AM03110PU-N
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. <i>Recommended Positive Control:</i> Kidney from post streptococcal 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.