

Mouse anti-Rat C5b-9 Monoclonal Antibody | anti-C5b-9 antibody

C5b-9, Rat, mAb 2A1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77761	Mouse	Rat	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

C5b-9; Monoclonal Antibody; Rat; mAb 2A1; Membrane attack complex; MAC; TCC; Terminal Complement Complex; anti-C5b-9 antibody

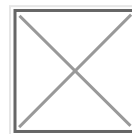
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Purity/Purification	Protein G
Form/Format	0.2 um filtered in PBS + 0.1% BSA + 0.02% NaN3 For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Concentration	100 ug/ml (varies by lot)
Applicable Applications for anti-C5b-9 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), IA (Immunoassay), FCM/FACS (Flow Cytometry)
Immunogen	Rat C5b-9
Positive Control	Glomeruli of rats treated with anti-Thy-1.1 antibodies
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for one year.

IMAGES



Application Data


IA (Immunoassay)

IA: Immuno assay experiment with AAA77761. AAA77761 was used as a capture antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-C5b-9 antibody	Product Description: The monoclonal antibody 2A1 recognizes rat C5b-9. The antibody was shown to compete with antibodies to human C9 for its binding site on the C5b-9 complex, indicating that the reactive epitope is located on the C9 molecule. C5b-9 membrane attack complexes are assembled from five precursor molecules in the serum. Proteolytic cleavage of C5 by C5 convertase generates C5b which initiates assembly of the C5b-9 complex. The last step of C5b-9 complex formation involves polymerization of C9 which accompanies insertion of the complex into the cell membrane. During formation of C5b-8 and C9 polymerization, neoantigens are generated which are unique to the C5b-9 complex and are not present on any of the individual native complex components. The complement regulatory proteins CD59 and complement S-protein can both prevent C5b-9 insertion into the cell membrane. The formed SC5b-9 complex is unable to attach to cells and is cytolytically inactive. C5b-9 is involved in the progression of chronic proteinuric renal disease by mediating continuous tubulointerstitial damage. Early tubulointerstitial injury in the remnant kidney can be improved when C5b-9 complex forming is abrogated. The monoclonal antibody 2A1 was raised against a rat C5b-9 neoantigen. Monoclonal antibody 2A1 can be used as a coating antibody to detect C5b-9 in plasma and urine samples.
References	1. Schulze, M et al. Increased urinary excretion of C5b-9 distinguishes passive Heymann nephritis in the rat. <i>Kidney Int.</i> 1989, 35: 60-2. 2. Brandt, J et al. Role of the complement membrane attack complex (C5b-9) in mediating experimental mesangioproliferative glomerulonephritis. <i>Kidney Int.</i> 1996, 49: 335 3. Sato, T et al. The terminal sequence of complement plays an essential role in antibody-mediated renal cell apoptosis. <i>J Am Soc Nephrol</i> 1999, 10: 1242 4. Duijvestijn, A. Complement activation by anti-endothelial cell antibodies in MHC-mismatched and MHC-matched heart allograft rejection: anti-MHC, but not anti non-MHC alloantibodies are effective in complement activation. <i>Transpl. Int.</i> 2000, 13:363 5. Yamada, K et al. Clusterin is up-regulated in glomerular mesangial cells in complement-mediated injury. <i>Kidney Intern</i> 2001. 59:137 6. Nangaku M et al. C6 mediates chronic progression of tubulointerstitial damage in rats with remnant kidneys. <i>J. Am. Soc. Nephrol.</i> 2002, 13: 928 7. Rangan GK et al. C5b-9 regulates peritubular myofibroblast accumulation in experimental focal segmental glomerulosclerosis. <i>Kidney Int-</i> 2004, 66: 1838 8. Ostendorf, T et al. Antagonism of PDGF-D by human antibody CR002 prevents renal scarring in experimental glomerulonephritis. <i>J Am Soc Nephrol</i> 2006, 17: 1054

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/c5b-9-antibody-immunohistochemistry-western-blot-immunofluorescence-immunoassay-flow-cytometry-elisa/77761>