

## 10-3559: Monoclonal Antibody to Rat C5b-9 (Clone:2A1)(Discontinued)

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|--------------------------------|----------------------|
| <b>Clonality :</b>             | Monoclonal           |
| <b>Clone Name :</b>            | 2A1                  |
| <b>Application :</b>           | IHC-Fr,IHC,FACS,WB   |
| <b>Reactivity :</b>            | Rat                  |
| <b>Isotype :</b>               | Mouse IgG1           |
| <b>Immunogen Information :</b> | Rat C5b-9 neoantigen |

### 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.

### Product Info

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|----------------------------|---|
| <b>Amount :</b>            | 9 (Clone:2A1)(Discontinued) / 500 µg  |
| <b>Purification :</b>      | Protein G affinity purification   |
| <b>Content :</b>           | 0.2 $\mu$ m filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide. |
| <b>Storage condition :</b> | Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.     |