

Product datasheet for **SM1768R**

CD59 Rat Monoclonal Antibody [Clone ID: YTH53.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	YTH53.1
Applications:	FC
Recommended Dilution:	Flow cytometry: We do not recommend using this antibody in lysed whole blood techniques due to inhibition of staining caused by CD59 expression on erythrocytes.
Reactivity:	Human
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human Peripheral Blood T cells. Spleen cells from immunised DA rat fused with the Y3/Ag1.2.3 meloma cell line.
Specificity:	Clustered at the fourth leucocyte typing workshop to designation CD59. YTH53.1 reacts with CD59 transfectants. It enhances antibody-mediated lysis by homologous complement and reacts with GPI-linked antigen of 18-20kD size which is broadly expressed on human leucocytes and erythrocytes. Putative ligand for CD2.
Formulation:	PBS, pH7.2 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: PE State: Lyophilized purified IgG Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1 ml distilled water
Purification:	Ion exchange chromatography
Conjugation:	PE
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD59 molecule



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Database Link: [Entrez Gene 966 Human P13987](#)

Background: CD59, an LY6 like protein expressed in human lymphoid cells, regulates the action of the complement membrane attack complex on homologous cells. It is a potent inhibitor of the complement membrane attack complex action. It acts by binding to the C8 and/or C9 complements of the membrane attack complex, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. CD59 is also involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase.

Synonyms: MAC-inhibitory protein, Protectin, MEM43 antigen, MIC11, MIN1, MIN2, MIN3, MSK21, MACIF, MAC-IP, MIRL, HRF20, HRF-20