

Monoclonal Antibody to CD59 - PE

Alternate names:	20 kDa homologous restriction factor, HRF-20, HRF20, MAC-IP, MAC-inhibitory protein, MACIF, MEM43 antigen, MIC11, MIN1, MIN2, MIN3, MIRL, MSK21, Membrane attack complex inhibition factor, Membrane inhibitor of reactive lysis, Protectin
Catalog No.:	SM1768R
Quantity:	100 Tests
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.
Uniprot ID:	P13987
NCBI:	NP_000602.1
GeneID:	966
Host / Isotype:	Rat / IgG2b
Clone:	YTH53.1
Immunogen:	Human Peripheral Blood T cells. Spleen cells from immunised DA rat fused with the Y3/Ag1.2.3 meloma cell line.
Format:	State: Lyophilized purified IgG Purification: Ion exchange chromatography Buffer System: PBS, pH7.2 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 1 ml distilled water
Applications:	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. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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. Species: Human. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

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.

Shelf life: one year from despatch.

General References:

1. Davies, A. et al. (1989) CD59 an LY-6-Like protein expressed in human lymphoid cells, regulates the action of the complement membrane attack complex on homologous cells. J. Exp. Med. 170: 637-654.
2. Walsh, L.A. et al. (1991) Transfection of Human CD59 complementary DNA into rat cells confers resistance to human complement. Eur. J. Immunol. 21: 847-850.

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