

## Monoclonal Antibody to CD59 - PE

<b>Alternate names:</b>	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
<b>Catalog No.:</b>	SM1145RT
<b>Quantity:</b>	25 Tests
<b>Background:</b>	CD59 is an LY6 like protein expressed in human lymphoid cells (haemopoietic and non-haemopoietic 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
<b>Uniprot ID:</b>	<a href="#">P13987</a>
<b>NCBI:</b>	<a href="#">NP_000602.1</a>
<b>GeneID:</b>	<a href="#">966</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	MEM-43
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Affinity chromatography on Protein A. <b>Buffer System:</b> BS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with distilled water.
<b>Applications:</b>	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with a PI-linked glycoprotein, Mw 18-20kD found on all types of leucocytes including platelets. MEM-43 has been shown to stimulate NK activity. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Prior to and following reconstitution store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

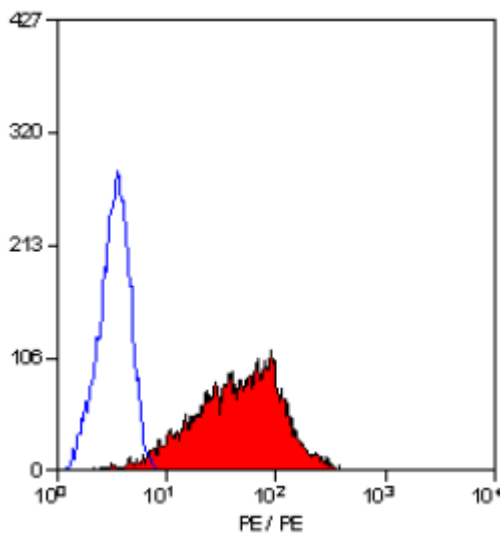
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Antibody Hotline - Technical Questions - Antibody Location Service  
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- General References:**
1. Stefanova, I. et al. (1989) in Leucocyte Typing IV: White cell differentiation antigens. Ed. Knapp, W. et al. Oxford University Press pp 678-697.
  2. Stefanova, I. et al. (1989) Characterisation of a broadly expressed human leucocyte antigen MEM-43 anchored in membrane through phosphatidylinositol. Mol. Immunol. 26: 153 - 161.
  3. Tandon, N. et al. (1994) . Expression and function of multiple regulators of complement activation in autoimmune thyroid disease. Immunology 81: 643-647.
  4. Horejsi, V. et al. (1988) Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74). Folia. Biol. (Prague) 34: 23-24.
  5. Hadam, M. R. (1989) In Leucocyte Typing IV white cells differentiation antigens. Ed. Knapp, W. et al. Oxford University Press. pp 720 - 722.
  6. Stefanova, I. et al. (1991) Association of CD59 and CD55 cell surface glycoproteins with other membrane molecules. J. Immunol. 147: 1587 - 1592.

**Pictures:**



Staining of human peripheral blood lymphocytes with Mouse Anti Human CD59-RPE (SM1145R/RT).

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