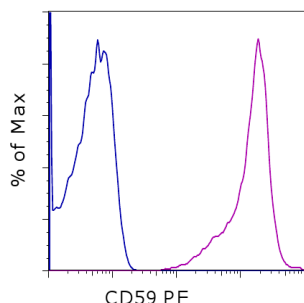


Anti-Human CD59 (Protectin) PE

Catalog Number: 12-0596

Also known as: MIRL

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE (cat. 12-4714) (blue histogram) or Anti-Human CD59 (Protectin) PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Human CD59 (Protectin) PE

Catalog Number: 12-0596

Clone: OV9A2

Concentration: 5 μ L (0.125 μ g)/test

Host/Isotype: Mouse IgG1, kappa



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial

Description

This OV9A2 monoclonal antibody reacts with human CD59, which is also known as Protectin. This GPI-linked membrane glycoprotein shares structural homology with the murine Ly-6 superfamily. CD59 is expressed on all human lymphocytes, monocytes, granulocytes, and erythrocytes. This protein is also expressed on non-hematopoietic cells, including endothelial cells and neurons. By binding the complement components C8 and C9, CD59 inhibits assembly of the membrane attack complex and cytolytic activity by complement. CD59 interacts with CD2 to modulate T cell adhesion, and also plays a role in T cell activation. Finally, altered expression of CD55 and CD59 on human peripheral blood cells has been observed in patients with systemic lupus erythematosus (SLE).

Crossblocking studies indicate that the OV9A2 monoclonal antibody binds the same epitope as MEM-43.

Applications Reported

This OV9A2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This OV9A2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Alegretti AP, Mucenic T, Merzoni J, Faulhaber GA, Silla LM, Xavier RM. Expression of CD55 and CD59 on peripheral blood cells from systemic lupus erythematosus (SLE) patients. *Cell Immunol.* 2010;265(2):127-32.

Deckert M, Kubar J, Zoccola D, Bernard-Pomier G, Angelisova P, Horejsi V, Bernard A. CD59 molecule: a second ligand for CD2 in T cell adhesion. *Eur J Immunol.* 1992 Nov;22(11):2943-7.

Korty PE, Brando C, Shevach EM. CD59 functions as a signal-transducing molecule for human T cell activation. *J*

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Immunol. 1991 Jun 15;146(12):4092-8.

Davies A, Simmons DL, Hale G, Harrison RA, Tighe H, Lachmann PJ, Waldmann H. 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. 1989 Sep 1;170(3):637-54.

Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)