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Technical Data Sheet

Anti-Human CD59 (Protectin) FITC

Catalog Number :11611-50

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

Product Information

Clone: OV9A2

Format/Conjugate: FITC

Concentration: 5 uL (0.125 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

Brightness (1=dim,5=brightest): 3

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The OV9A2 monoclonal antibody specifically reacts with human CD59 (Protectin), a 19-25 kDA GPI-anchored glycoprotein. CD59 is expressed on hematopoietic and non-hematopoietic cells including lymphocytes, granulocytes, erythrocytes, monocytes and neurons. CD59 can inhibit complement cytolytic activity and the assembly of the membrane attack complex when bound to C8 and C9 complement components. It is involved in T cell activation and modulates T cell adhesion through interaction with CD2.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1.Deckert, M., Kubar, J., Zoccola, D., Bernard-Pomier, G., Angelisova, P., Horejsi, V., Bernard, A. (1992). CD59 molecule: a second ligand for CD2 in T cell adhesion.;European journal of immunology,;22(11), 2943-2947.

2. Korty, P. E., Brando, C. L. A. R. A., Shevach, E. M. (1991). CD59 functions as a signal-transducing molecule for human T cell activation.;The Journal of immunology,;146(12), 4092-4098.

3. Davies, A., Simmons, D. L., Hale, G., Harrison, R. A., Tighe, H., Lachmann, P. J., Waldmann, H. (1989). CD59, an LY-6-like protein expressed in human lymphoid cells, regulates the action of the complement membrane attack complex on homologous cells.;The Journal of experimental medicine,;170(3), 637-654.

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