

Anti-Mouse CD2 PE

Catalog Number :04112-60

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

Product Information

Clone: RM2-5

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Rat IgG2b, lambda

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 RM2-5 monoclonal antibody specifically binds to mouse CD2, a member of the Ig superfamily and type I transmembrane glycoprotein. CD2 is expressed on B cells, T cells, NK cells, and thymocytes and its ligand is CD48. It may be involved in immunoregulation, thymocyte maturation, and T-cell activation. The RM2-5 antibody has been reported to block CD2 mediated cell to cell adhesion.

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. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Yagita, H., Nakamura, T., Karasuyama, H., Okumura, K. (1989). Monoclonal antibodies specific for murine CD2 reveal its presence on B as well as T cells. Proceedings of the National Academy of Sciences, 86(2), 645-649.
2. Nakamura, T. E. T. S. U. Y. A., Takahashi, K. A. Z. U. H. I. S. A., Fukazawa, T. O. H. R. U., Koyanagi, M. A. K. O. T. O., Yokoyama, A., Kato, H., ... Okumura, K. (1990). Relative contribution of CD2 and LFA-1 to murine T and natural killer cell functions. The Journal of Immunology, 145(11), 3628-3634.
3. Kato, K., Koyanagi, M., Okada, H., Takanashi, T., Wong, Y. W., Williams, A. F., ... Yagita, H. (1992). CD48 is a counter-receptor for mouse CD2 and is involved in T cell activation. The Journal of experimental medicine, 176(5), 1241-1249.