

## Anti-Mouse CD2 FITC

Catalogue Number : 04112-50

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

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### Product Information

**Clone:** RM2-5

**Format/Conjugate:** FITC

**Concentration:** 0.5 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

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

**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.