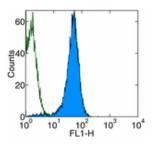


## Anti-Mouse CD2 Purified

Catalog Number: 14-0021 Also Known As:LFA-2, Ly-37 RUO: For Research Use Only



Staining of mouse splenocytes with Anti-Mouse CD2 FITC. Autofluorescence is indicated by open histogram. Total viable cells were used for analysis.

#### Product Information

Contents: Anti-Mouse CD2 Purified

REF Catalog Number: 14-0021

Clone: RM2-5

Concentration: 0.5 mg/ml Host/Isotype: Rat IgG2b,  $\lambda$ 

Formulation: aqueous buffer, 0.09% sodium azide, may contain

carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

# Description

The RM2-5 monoclonal antibody reacts with the mouse CD2 molecule, an approximately 50-55 kDa cell surface receptor expressed by all mouse lymphocytes. Expression of the CD2 antigen in the mouse differs from that of the human in that B lineage cells in the mouse from the pre-B cell stage to mature B cells express CD2. CD2 is a ligand for CD48 in the mouse and is involved in adhesion and activation of T cells.

#### **Applications Reported**

The RM2-5 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. RM2-5 has also been reported in blocking of CD2 activity in *in vitro* functional assays. (Please use Functional Grade purified RM2-5, cat. 16-0021, in functional assays.)

#### **Applications Tested**

The RM2-5 antibody has been tested by flow cytometric analysis of mouse spleen and bone marrow cell suspensions. This can be used at less than or equal to 0.25  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

#### References

Nakamura, T., K. Takahashi, et al. (1990). "Relative contribution of CD2 and LFA-1 to murine T and natural killer cell functions." <u>J Immunol</u> 145 (11): 3628-34.

Yagita, H., T. Nakamura, et al. (1989). "CD2 expression in murine B cell lineage." Int Immunol 1(1): 94-8.

Yagita, H., T. Nakamura, et al. (1989). "Monoclonal antibodies specific for murine CD2 reveal its presence on B as well as T cells." <u>Proc Natl Acad Sci U S A</u> 86(2): 645-9.

### Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4031 Rat IgG2b K Isotype Control Purified

17-4317 Streptavidin APC

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