

30-2628: Anti-Mouse CD2 PE (Clone : RM2-5)

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| Clonality : | Monoclonal |
| Clone Name : | RM2-5 |
| Application : | FACS |
| Reactivity : | Mouse |
| Conjugate : | PE |
| Gene : | CD2 |
| Gene ID : | 12481 |
| Alternative Name : | LFA-2, Ly37, Ly-37,CD2 molecule |
| Isotype : | Rat IgG2b lambda |
| Immunogen Information : | Murine thymocytes |

Description

CD2 belongs to T lymphocyte glycoproteins of immunoglobulin superfamily. Its interaction with CD58 stabilizes adhesion between T cells and antigen presenting or target cells. Relatively low affinity of CD2 to CD58 (as measured in solution) is compensated within the two-dimensional cell-cell interface to provide tight adhesion. Moreover, T cell activation induces increased CD2 expression and its lateral mobility, making easier contact between CD2 and CD58. Subsequently, T cell activation causes fixation of CD58-CD2 at sites of cell-cell contact, thereby strengthening intercellular adhesion. CD2 deficiency reduces intestinal inflammation and helps to control infection.

Specificity : The rat monoclonal antibody RM2-5 recognizes an extracellular epitope of CD2, a 50 kDa glycoprotein present on the human peripheral blood T lymphocytes and NK cells; also expressed by all thymocytes.

Product Info

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| Amount : | 0.1 mg |
| Purification : | The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| Content : | 0.5 mg/ml Formulation : Phosphate buffered saline (PBS) solution with 15 mM sodium azide |
| Storage condition : | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. |

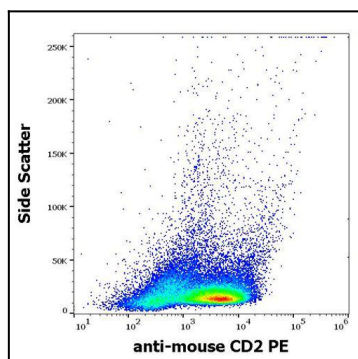


Figure 1 : Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD2 (RM2-5) PE antibody (concentration in sample 3 µg/ml).

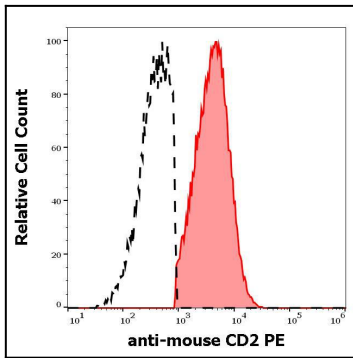


Figure 2 : Separation of murine CD2 positive cells (red-filled) from murine CD2 negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension using anti-mouse CD2 (RM2-5) PE antibody (concentration in sample 3 µg/ml).