

### 30-2627: Anti-Mouse CD2 FITC (Clone : RM2-5)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RM2-5
<b>Application :</b>	FACS
<b>Reactivity :</b>	Mouse
<b>Conjugate :</b>	FITC
<b>Gene :</b>	CD2
<b>Gene ID :</b>	12481
<b>Alternative Name :</b>	LFA-2, Ly37, Ly-37,CD2 molecule
<b>Isotype :</b>	Rat IgG2b lambda
<b>Immunogen Information :</b>	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

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

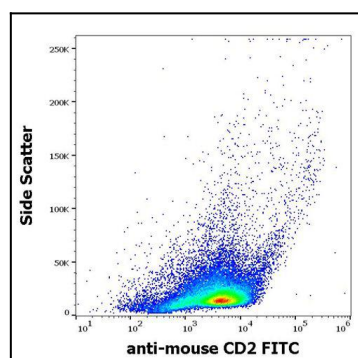


Figure 1 : Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD2 (RM2-5) FITC antibody (concentration in sample 3 µg/ml).

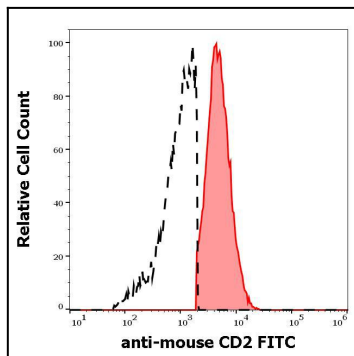


Figure 2 : Separation of murine CD2 positive cells (red-filled) from murine CD2 negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension using anti-mouse CD2 (RM2-5) FITC antibody (concentration in sample 3 µg/ml).