SONY

Product Data Sheet

Purified anti-mouse CD2

Catalog # / Size: 1100510 / 500 µg

Clone: RM2-5

Isotype: Rat IgG2b, λ

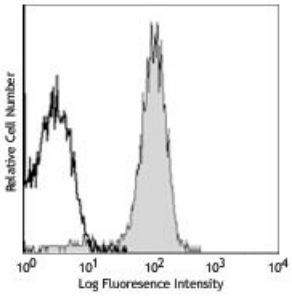
Immunogen: BALB/c mouse thymocytes

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with purified RM2-5

Applications:

Applications: Flow Cytometry, Immunoprecipitation

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: *in vitro* blocking of CD2-mediated cell-cell adhesion and inhibition of T cell activation1, blocking of T cell A.I.C.D.2, immunoprecipitation3, and co-induction of thymocyte maturation4. The RM2-5 antibody can block CD2-mediated cell-cell adhesion. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 100110).

Application References:

1. Nakamura T, *et al.* 1990. *J. Immunol.* 145:3628. (Block)
2. Ayroldi E, *et al.* 1997. *Blood* 89:3717. (Block)
3. Criado G, *et al.* 1996. *Eur. J. Immunol.* 26:1228. (IP)
4. Cibotti R, *et al.* 1997. *Immunity* 6:245. (Costim)

Description: CD2 is a 45-58 kD type I transmembrane glycoprotein, also known as LFA-2, T11 or Ly-37. It is a member of the Ig superfamily. Mouse CD2 is primarily expressed on T cells, B cells, thymocytes and NK cells. It is a ligand for CD48 and is involved in T cell activation and differentiation.

Antigen References:

1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Davis SJ, *et al.* 1996. *Immunol. Today* 17:177.
3. Bierer BE, *et al.* 1989. *Annu. Rev. Immunol.* 7:579.

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