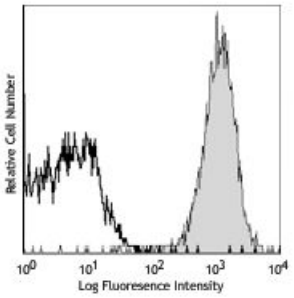
SONY

Product Data Sheet

Biotin anti-mouse CD2

Catalog # / Size:	1100515 / 50 µg 1100520 / 500 µg
Clone:	RM2-5
Isotype:	Rat IgG2b, λ
Immunogen:	BALB/c mouse thymocytes
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 mouse splenocytes stained with biotinylated RM2-5, followed by Sav-PE

Applications:

Applications:	Flow Cytometry
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 microg per 10^6 cells in 100 microL 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.