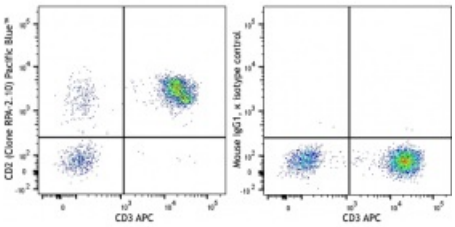
SONY

Product Data Sheet

Pacific Blue™ anti-human CD2

Catalog # / Size:	2101175 / 25 tests 2101180 / 100 tests
Clone:	RPA-2.10
Isotype:	Mouse IgG1, κ
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	IV T085
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD3 APC and CD2 (clone RPA-2.10) Pacific Blue™ (left) or, mouse IgG1, κ Pacific Blue™ isotype control (right).

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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections[6] and blocking of T cell activation[2].

Application References:

1. Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. Aversa G, *et al.* 1987. *Transplant. Proc.* 19:277. (Block)
3. Zaretsky AG, *et al.* 2009. *J. Exp Med.* 206:991. (IHC) PubMed
4. Perona-Wright G, *et al.* 2010. *Nat. Immunol.* 11:520. (FC) PubMed
5. Thummler K, *et al.* 2010. *J. Leukoc. Biol.* 88:1041.
6. Kap Y, *et al.* 2009. *J. Histochem. Cytochem.* 57:1159. (IHC)
7. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

Description: CD2 is a 50 kD type I transmembrane glycoprotein also known as LFA-2, T11, and sheep red blood cell receptor (SRBC-R). This immunoglobulin superfamily member is expressed on thymocytes, T lymphocytes, NK cells, and thymic B cell subsets. The major ligand for CD2 is CD58 (also known as LFA-3). CD2 has also been reported to bind CD48, CD59, and CD15. CD2 plays a critical role in alternative T cell activation, T cell signaling, and cell-cell adhesion.

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Antigen References:
1. Bell G, *et al.* 1995. *J. Immunol.* 155:2805.
2. Bierer B, *et al.* 1989. *Annu. Rev. Immunol.* 7:579.
3. Moingeon P, *et al.* 1989. *Immunol. Rev.* 111:111.