SONY

Product Data Sheet

Biotin anti-human CD2

Catalog # / Size: 2101020 / 100 µg
2101015 / 25 µg

Clone: RPA-2.10

Isotype: Mouse IgG1, κ

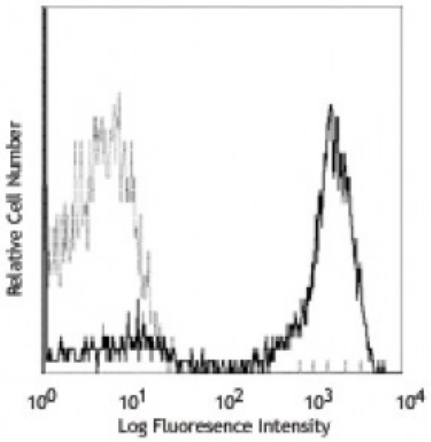
Reactivity: Human

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.

Workshop Number: IV T085

Concentration: 0.5



Human peripheral blood lymphocytes stained with biotinylated RPA-2.10 and detected with 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 million 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: immunohistochemical staining of acetone-fixed frozen tissue sections[6] and blocking of T cell activation2. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 300212).

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.

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.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com