

Product Data Sheet

FITC anti-human CD2

Catalog # / Size: 300206 / 100 tests

Clone: RPA-2.10

Isotype: Mouse IgG1, κ

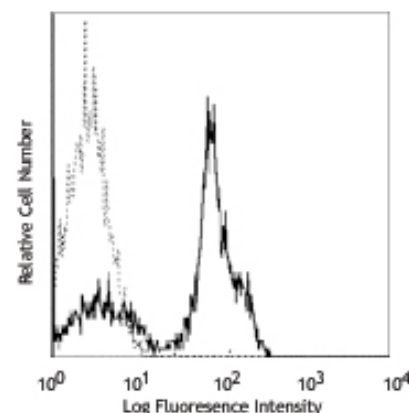
Workshop Number: IV T085

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Capuchin Monkey, Swine (Pig, Porcine)

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with RPA-2.10 FITC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections⁶ and blocking of T cell activation². The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 300212).

Application References:

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

- Bell G, et al. 1995. *J. Immunol.* 155:2805.
- Bierer B, et al. 1989. *Annu. Rev. Immunol.* 7:579.
- Moingeon P, et al. 1989. *Immunol. Rev.* 111:111.

Related Products:

Product	Clone	Application
FITC anti-human CD3	HIT3a	FC
FITC anti-human CD3	UCHT1	FC
FITC Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
FITC anti-human CD2	TS1/8	FC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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