

**Brilliant Violet 421™ anti-human CD2**

**Catalog # / Size:** 2101145 / 25 tests  
2101150 / 100 tests

**Clone:** RPA-2.10

**Isotype:** Mouse IgG1, κ

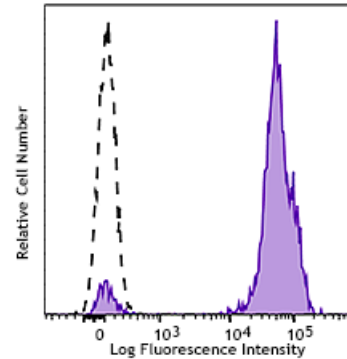
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

**Workshop Number:** IV T085

**Concentration:** Lot-specific



Human peripheral blood lymphocytes stained with CD2 (clone RPA-2.10) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

**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.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections<sup>6</sup> and blocking of T cell activation<sup>2</sup>.

- 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.