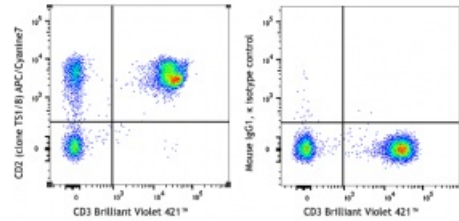


**APC/Cyanine7 anti-human CD2**

<b>Catalog # /</b>	2146190 / 100 tests
<b>Size:</b>	2146185 / 25 tests
<b>Clone:</b>	TS1/8
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Human CD161 transfected cell line
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
<b>Workshop Number:</b>	V S025
<b>Concentration:</b>	Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD3 Brilliant Violet 421™ and anti-human CD2 (clone TS1/8) APC/Cyanine7 (left) or mouse IgG1,  $\kappa$  APC/Cyanine7 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  $\mu$ L per million cells in 100  $\mu$ L staining volume or 5  $\mu$ L per 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: blocking of T cell activation, and partial blocking of B cell costimulation<sup>2</sup>.

**Application References:**

- Schlossman S, et al. Eds. 1995. Leucocyte Typing V Oxford University Press. New York.
- Hughes CCW, et al. 1996. *J. Biol. Chem.* 271:5369.

**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.