

## Anti-Human CD2 BG Violet 450

Catalog Number :04111-40

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** RPA-2.10

**Format/Conjugate:** BG Violet 450

**Concentration:** 5 uL (0.06 ug)/test

**Reactivity:** Human

**Laser:** Violet (405nm)

**Peak Emission:** 450nm

**Peak Excitation:** 404nm

**Filter:** 450/50

**Brightness (1=dim,5=brightest):** 2

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The RPA-2.10 monoclonal antibody specifically binds to human CD2, a 50 kDA type I transmembrane glycoprotein. CD2 is expressed on NK cells, thymocytes, T lymphocytes, and B cell subsets. CD2 is involved in cell-cell adhesion, T cell activation, and T cell signaling. Its ligand is CD58 and it is reported to bind to CD48, CD59, and CD15. The RPA-2.10 antibody is reported to be cross-reactive with pigs and non-human primates.

BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
2. Hahn, W. C., Burakoff, S. J., Bierer, B. E. (1993). Signal transduction pathways involved in T cell receptor-induced regulation of CD2 avidity for CD58. The Journal of Immunology, 150(7), 2607-2619.
3. Aversa, G. G., Bishop, G. A., Suranyi, M. G., Hall, B. M. (1987, February). RPA-2.10: an anti-CD2 monoclonal antibody that inhibits alloimmune responses and monitors T cell activation. In: Transplantation proceedings; (Vol. 19, No. 1 Pt 1, pp. 277-278).