

## Anti-Human CD29 (Integrin beta 1) FITC

Catalog Number :11311-50

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

### Product Information

**Clone:** TS2/16

**Format/Conjugate:** FITC

**Concentration:** 5 uL (0.25 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**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 TS2/16 monoclonal antibody specifically reacts with human CD29 (Integrin beta1), a 130 kDA type I glycoprotein expressed on hematopoietic and non-hematopoietic cells. It forms the VLA-(1-6) molecules with integrin alpha-(1-6) and is involved in the adhesion between cell-cell and cell-matrix. The TS2/16 antibody has been found to activate beta 1 integrins.

### 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. Hemler, M. E., Sanchez-Madrid, F., Flotte, T. J., Krensky, A. M., Burakoff, S. J., Bhan, A. K., ... Strominger, J. L. (1984). Glycoproteins of 210,000 and 130,000 mw on activated T cells: cell distribution and antigenic relation to components on resting cells and T cell lines.; The Journal of Immunology, 132(6), 3011-3018.
2. Schlossman, S. F. (1995).; Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.
3. Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., Springer, T. A. (1982). Three distinct antigens associated with human T-lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. Proceedings of the National Academy of Sciences, 79(23), 7489-7493.