

Anti-Human CD29 (Integrin beta 1) FITC

Catalogue 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.