

Anti-Human CD90 (Thy-1) FITC

Catalogue Number : 03011-50

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

Product Information

Clone: 5E10

Format/Conjugate: FITC

Concentration: 5 μ L (1.0 μ g)/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, $\leq 0.09\%$ 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 5E10 monoclonal antibody specifically reacts with human CD90, also known as thymus cell antigen-1 (Thy-1). CD90 is a 25-37 kDa GPI-anchored protein is the smallest member of the Ig superfamily. CD90 is expressed on thymocytes, neurons, mesenchymal stem cells, hematopoietic stem cells, NK cells, and follicular dendritic cells and plays a role in inflammation, metastasis, apoptosis, and nerve regeneration. The 5E10 antibody can be used for the enriching high proliferative potential colony-forming cells (HIPP-CFC).

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 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

References

1. Craig, W., Kay, R., Cutler, R. L., Lansdorp, P. M. (1993). Expression of Thy-1 on human hematopoietic progenitor cells.;The Journal of experimental medicine.,177(5), 1331-1342.
2. Trickett, A. E., Ford, D. J., Lam-Po-Tang, P. R., Vowels, M. R. (1991). Immunomagnetic bone marrow purging of common acute lymphoblastic leukemia cells: suitability of BioMag particles.;Bone marrow transplantation,7(3), 199-203.
3. 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.