

## 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 uL (1.0 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 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 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. 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.