

Anti-Rat CD90 FITC

Catalog Number :03013-50

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

Product Information

Clone: HIS51

Format/Conjugate: FITC

Concentration: 0.5 mg/ml

Reactivity: Rat

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

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

Isotype: Mouse IgG2a, 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 HIS51 monoclonal antibody reacts with rat CD90 (Thy-1), GPI-anchored protein of the Ig superfamily involved in signal transduction. CD90 is expressed on thymocytes, neurons, hematopoietic stem cells, and T cells. The HIS51 antibody is reported to cross-react with mouse Thy-1.1 of the AKR/J and PL strains.

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. For flow cytometric staining, the suggested use of this reagent is ≤ 0.3 ug per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Hermans, M. H., Opstelten, D. A. V. I. N. A. (1991). In situ visualization of hemopoietic cell subsets and stromal elements in rat and mouse bone marrow by immunostaining of frozen sections. *Journal of Histochemistry Cytochemistry*, 39(12), 1627-1634.
2. Hosseinzadeh, H., Goldschneider, I. (1993). Recent thymic emigrants in the rat express a unique antigenic phenotype and undergo post-thymic maturation in peripheral lymphoid tissues. *The Journal of Immunology*, 150(5), 1670-1679.
3. Dammers, P. M., Lodewijk, M. E., Zandvoort, A., Kroese, F. G. (2002). Marginal zone B cells in neonatal rats express intermediate levels of CD90 (Thy-1). *Clinical and Developmental Immunology*, 9(4), 187-195.