

Anti-Mouse Ly-6A/E (Sca-1) PE-Cyanine7

Catalog Number :82912-77

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

Product Information

Clone: D7

Format/Conjugate: PE-Cyanine7

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Rat IgG2a, 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 D7 monoclonal antibody specifically reacts with mouse Ly-6A/E (Sca-1), a 18 kDa GPI-linked surface protein. It is expressed on multipotent hematopoietic stem cells (HSC) and subsets of B and T cells and involved in B and T cell lymphocyte responses. Splenocytes from Ly-6.2 strains exhibit a larger number of D7-positive cells than those from the Ly-6.1 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 ≤0.06 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Ortega, G. U. S. T. A. V. O., Korty, P. E., Shevach, E. M., Malek, T. R. (1986). Role of Ly-6 in lymphocyte activation. I. Characterization of a monoclonal antibody to a nonpolymorphic Ly-6 specificity.; The Journal of Immunology.; 137(10), 3240-3246.
2. Malek, T. R., Ortega, G. U. S. T. A. V. O., Chan, C. H. R. I. S. T. I. N. A., Kroczeck, R. A., Shevach, E. M. (1986). Role of Ly-6 in lymphocyte activation. II. Induction of T cell activation by monoclonal anti-Ly-6 antibodies.; The Journal of experimental medicine.; 164(3), 709-722.
3. Palfree, R. G., Dumont, F. J., Hammerling, U. (1986). Ly-6A. 2 and Ly-6E. 1 molecules are antithetical and identical to MALA-1.; Immunogenetics.; 23(3), 197-207.