

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

Catalogue Number : 82912-60

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

### Product Information

**Clone:** D7

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

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

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

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

**Isotype:** Rat 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 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  $\leq 0.125$  ug per million cells in 100  $\mu$ l 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.