

## Anti-Rat CD4 PE

Catalog Number :06113-60

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

### Product Information

**Clone:** OX35

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Rat

**Laser:** Blue (488nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

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

**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 OX35 monoclonal antibody specifically binds to rat CD4, a 55kD glycoprotein with four extracellular immunoglobulin-like domains also known as T4. It is expressed on the surface of most thymocytes, T-helper cells, monocytes, and macrophages, and some dendritic cells. CD4 is a co-receptor in the antigen-induced T cell activation (together with the MHC class II).

### 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  $\leq 0.5$  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. Jefferies, W. A., Green, J. R., Williams, A. F. (1985). Authentic T helper CD4 (W3/25) antigen on rat peritoneal macrophages. *Journal of Experimental Medicine*, 162(1), 117-127.
2. Crocker, P. R., Jefferies, W. A., Clark, S. J., Chung, L. P., Gordon, S. I. A. M. O. N. (1987). Species heterogeneity in macrophage expression of the CD4 antigen. *Journal of Experimental Medicine*, 166(2), 613-618.
3. Bañuls, M. P., Alvarez, A., Ferrero, I., Zapata, A., Ardavin, C. (1993). Cell-surface marker analysis of rat thymic dendritic cells. *Immunology*, 79(2), 298.