

Anti-Rat CD4 FITC

Catalog Number :06113-50

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

Product Information

Clone: OX35

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, ≤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 ≤0.25 ug per million cells in 100 µl 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.