

## Anti-Human CD4 Purified

Catalog Number :06111-20

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

### Product Information

**Clone:** OKT4

**Format/Conjugate:** Purified

**Concentration:** 0.5 mg/mL

**Reactivity:** Human

**Laser:** Not Applicable

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

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

**Isotype:** Mouse IgG2b, 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, FA, IF, ICC, IP, WB

### Description

The OKT4 monoclonal antibody specifically binds to the CD4 receptor for the human immunodeficiency virus (HIV). CD4 is a 59 kDa single-chain transmembrane glycoprotein that expressed on the surface of most of the thymocytes, T-helper cells, and in low levels on monocytes and macrophages. CD4 is a co-receptor in the antigen-induced T cell activation (together with the MHC class II). The OKT4 and the RPA-T4 monoclonal antibodies recognize different epitopes of CD4 and they do not exhibit cross-block binding.

### 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. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Reinherz, E. L., Kung, P. C., Goldstein, G., Schlossman, S. F. (1979). Separation of functional subsets of human T cells by a monoclonal antibody. *Proceedings of the National Academy of Sciences*, 76(8), 4061-4065.
2. ;Knapp W;(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
3. Bour, S. T. E. P. H. A. N. E., Boulterice, F. R. A. N. C. O. I. S., Wainberg, M. A. (1991). Inhibition of gp160 and CD4 maturation in U937 cells after both defective and productive infections by human immunodeficiency virus type 1. *Journal of virology*, 65(12), 6387-6396.