

## Anti-Human CD4 PE-Cyanine7

Catalog Number :06131-77

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

### Product Information

**Clone:** SK3

**Format/Conjugate:** PE-Cyanine7

**Concentration:** 5 uL (0.06 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

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

**Isotype:** Mouse IgG1, 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 SK3 monoclonal antibody specifically binds to human CD4, a 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 SK3 antibody inhibits HIV binding to CD4+ cells. It and the RPA-T4 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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Louache, F., Debili, N., Marandin, A., Coulombel, L., & Vainchenker, W. (1994). Expression of CD4 by human hematopoietic progenitors [see comments]. *Blood*, 84(10), 3344-3355. Rand, T. H., Cruikshank, W. W., Center, D. M., & Weller, P. F. (1991). CD4-mediated stimulation of human eosinophils: lymphocyte chemoattractant factor and other CD4-binding ligands elicit eosinophil migration. *Journal of experimental medicine*, 173(6), 1521-1528. Gougeon, M. L., Lecœur, H., Dulioust, A., Enouf, M. G., Crouvoiser, M., Goujard, C., ... & Montagnier, L. (1996). Programmed cell death in peripheral lymphocytes from HIV-infected persons: increased susceptibility to apoptosis of CD4 and CD8 T cells correlates with lymphocyte activation and with disease progression. *The Journal of Immunology*, 156(9), 3509-3520.