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Technical Data Sheet

Anti-Human CD4 APC

Catalog Number :06131-80

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

Product Information

Clone: SK3

Format/Conjugate: APC

Concentration: 5 uL (0.06 ug)/test

Reactivity: Human

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

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

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: 0

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., Lecoeur, H., Duliost, 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.

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