

Anti-Human CD3 APC-Cyanine7

Catalog Number :05141-87

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

Product Information

Clone: SK7

Format/Conjugate: APC-Cyanine7

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Red (635 -655nm)

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 SK7 monoclonal antibody specifically reacts with the ϵ chain of the CD3/T lymphocyte antigen receptor complex. The CD3 complex contains γ , δ , and ϵ chains, and it is part of the TCR complex, expressed by all mature T lymphocytes and by the thymocyte lineage. CD3 enhances the antigen recognition by signal transduction. The SK7 antibody is reported to have a mitogenic effect on the majority of peripheral blood T cells in the presence of functional monocytes.

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 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

References

1. Van Dongen, J. J., Krissansen, G. W., Wolvers-Tettero, I. L., Comans-Bitter, W. M., Adriaansen, H. J., Hooijkaas, H., ... Terhorst, C. (1988). Cytoplasmic expression of the CD3 antigen as a diagnostic marker for immature T-cell malignancies. *Blood*, 71(3), 603-612.
2. Haynes, B. F. (1986). Summary of T cell studies performed during the second international workshop and conference on human leukocyte differentiation antigens. In: *Leukocyte typing II*; (pp. 3-30). Springer New York.
3. Kap, Y. S., van Meurs, M., van Driel, N., Koopman, G., Melief, M. J., Brok, H. P., ... A't Hart, B. (2009). A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. *Journal of Histochemistry Cytochemistry*, 57(12), 1159-1167.