

## Anti-Human CD3 PerCP-Cyanine5.5

Catalogue Number : 05121-70

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

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### Product Information

**Clone:** OKT3

**Format/Conjugate:** PerCP-Cyanine5.5

**Concentration:** 5 uL (1 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 695nm

**Peak Excitation:** 482nm

**Filter:** 695/40

**Brightness (1=dim,5=brightest):** 3

**Isotype:** MouseIgG2a, 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 OKT3 monoclonal antibody specifically reacts with the  $\epsilon$  chain of the CD3/T lymphocyte antigen receptor complex. The CD3 complex contains  $\gamma$ ,  $\delta$ , and  $\epsilon$  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 OKT3 antibody is an immunosuppressive, which has proven to be an effective therapeutic agent in liver, heart, and renal allograft rejection.

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

### References

1. Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York
2. Knapp W;(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
3. Adair, J. R., Athwal, D. S., Bodmer, M. W., Bright, S. M., Collins, A. M., Pulito, V. L., ... Jolliffe, L. K. (1994). Humanization of the murine anti-human CD3 monoclonal antibody OKT3.;Human Antibodies.;5(1), 41-47.