

Anti-Mouse CD3 APC-Cyanine7

Catalog Number :05112-87

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

Product Information

Clone: 17A2

Format/Conjugate: APC-Cyanine7

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Red (635 -655nm)

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

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

Isotype: Rat 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

Description

The 17A2 monoclonal antibody specifically reacts with the mouse T lymphocytes receptor (TCR) associated CD3 complex, resulting in cellular activation and proliferation. CD3 is expressed by thymocytes and mature lymphocytes, and contains γ , δ , and ϵ subunits, involved in the assembly, trafficking, and surface expression of T-cell receptor complex.

The interaction between the T lymphocytes and the 17A2 antibody can be blocked by the 145-2C11 anti-CD3e antibody, demonstrating that the 17A2 antibody recognizes the CD3 ϵ chain.

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. For flow cytometric staining, the suggested use of this reagent is ≤0.5 ug per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Miescher, G. C., Schreyer, M., MacDonald, H. R. (1989). Production and characterization of a rat monoclonal antibody against the murine CD3 molecular complex.; *Immunology letters*;23(2), 113-118.
2. Mysliwicz, J., Thierfelder, S. (1992). Antilymphocytic antibodies and marrow transplantation. XII. Suppression of graft-versus-host disease by T-cell-modulating and depleting antimouse CD3 antibody is most effective when preinjected in the marrow recipient.; *Blood*;80(10), 2661-2667.
3. Wu, L., Antica, M., Johnson, G. R., Scollay, R., Shortman, K. (1991). Developmental potential of the earliest precursor cells from the adult mouse thymus.; *The Journal of experimental medicine*;174(6), 1617-1627.