biogems
Enabling Science through Innovation

Technical Data Sheet

Anti-Mouse CD3 PE

Catalog Number :05112-60
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 17A2
Format/Conjugate: PE
Concentration: 0.2 mg/mL
Reactivity: Mouse
Laser: Blue (488nm), Yellow/Green (532-561nm)
Peak Emission: 578nm
Peak Excitation: 496nm
Filter: 585/40
Brightness (1=dim,5=brightest): 5
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 MouseT 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 µl 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. Mysliwietz, 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.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316
Not for further distribution without written consent. Copyright © 2023 BioGems, Inc.