anti-mouse CD4 APC-conjugated

APC- conjugated monoclonal antibody YTS 191.1.2 to mouse CD4

Cat-No: **22150046** 500 µl

Clone: YTS 191.1.2

Specificity: The CD4 (L3/T4) antigen is thought to be the murine equivalent of the human Leu3/OKT4 antigen. This T cell surface molecule appears to be expressed by the helper/inducer subset of murine T cells and by delayed hypersensitivity T cells but not by cytotoxic T cells or their precursors. CD4 (L3/T4) and CD8a (Ly 2) have been shown to be present on mutually exclusive T cells in the peripheral lymphoid organs but the thymus contains cells expressing both CD4 (L3/T4) and CD8a (Ly2). The anti-mouse CD4 (L3/T4) mAb binds to approximately 85% of mouse thymocytes, 20% splenocytes, 50% lymph node cells, and a small number of bone marrow cells. It detects a protein of approximately 52 kDa on SDS-PAGE “Western Blots” (from Con A blast cell membranes) and is therefore similar to a well characterized human Leu3/T4 antigen.

Isotype subclass: Rat IgG2b

Form: The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light.

Application: Flow Cytometry

References:

1. Cobbald S.P., Martin G., Lovat P.C., & Waldmann H., 8th International Conference on Lymphatic Tissues and Germinal Centres. Plenum Press (Ed. Klaus G.) in press (1984) Immunosuppression with monoclonal antibodies - rules for effective serotherapy.
2. Agel N.M. et al,(1984) J. Immunol. Methods. Immunohistological Screening in the selection of monoclonal antibodies: the use of isotype specific antiglobulins. 69, 207-214.
3. Dialynas D.P. et al, (1983) J. Immunol. Characterization of the murine T cell surface antigen designated L3/T4, identified by monoclonal antibody GK1.5. Similarity of L3/T4 to human Leu3/T4 molecule. U131U, 2445-2451.
4. Mueller, R. et al (1997) J. of Immunol. 159: 1599-1603. IL-4 Expression by Grafts from Transgenetic Mice Fails to Prevent Allograft Rejection.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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