

PRODUCT INFORMATION SUMMARY

ANTI-CD4 (T4)

PRODUCT NUMBER M220020 Purified 0.1 mg
PRODUCT NUMBER M220070 Phycoerythrin 100 Tests
PRODUCT NUMBER M220030 FITC 100 Tests

ANTIGEN DISTRIBUTION AND SPECIFICITY:

The CD4 antigen is present on approximately 50-60% of peripheral T lymphocytes expressing helper/inducer function. Present on approximately 80% of normal thymocytes. The CD4 (T4) antigen is a glycoprotein with a molecular weight of 55 kilodaltons (1).

CLONE:

S3.5, (FITC conjugate and Purified forms only), derived from hybridization of murine myeloma (SP2/0) cells with spleen cells from BALB/c mice immunized with a human T cell leukemia (2). Affinity purified from murine ascites fluid.

Immunoglobulin chain composition: IgG2a, kappa light chains.

CONJUGATION:

R-phycoerythrin; FITC

HANDLING AND STORAGE:

All conjugates are supplied as 1.0 mL of liquid. Fluorochromes should be protected from prolonged exposure to light. Reagents will be in a medium containing 0.01M phosphate-buffered saline, pH 7.4, 0.2% gelatin and 0.1% sodium azide. These preparations should be diluted in a protein-containing or other stabilizing medium to a concentration suitable for use in specific protocols. All reagents in a liquid state should be stored at 2-8° C when not in use.

* R-phycoerythrin is registered under U.S. patent numbers 4,520,110 and 4,859,582.

PRODUCT USE:

For flow cytometry use 10 uL per test; For immunohistochemistry, Purified Anti-T4 should be diluted 1:40 - 1:80, using enough reagent to cover the tissue section or cytoprep.

RESEARCH APPLICATIONS:

Applications include: determination of T4 lymphocyte populations in peripheral blood by flow cytometry, evaluation of the T4/T8 lymphocyte ratio of patients with AIDS or other immunologic disorders, functional studies involving inhibition of binding of human immunodeficiency virus (HIV) to T4 lymphocytes (3), and immunofluorescence or immunoenzymatic staining.

CAUTION:

Reagents contain sodium azide, a preservative which may react with lead joints in copper drain lines to form explosive compounds. Even though reagents contain minute quantities of sodium azide, drains should be thoroughly flushed with water when reagents are discarded.

WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the product label description.

SELECTED REFERENCES:

1. Reinherz, E.L. and Schlossman, S.F. 1980. The differentiation and function of human T lymphocytes. *Cell* :821.
2. Posnett, D. N., Bigler, R. D., Bushkin, Y., Fisher, D. E., Wang, C. Y., Mayer, L. F., Chiorazz, N. and Kunkel, H.G. 1984. T cell Anti-idiotypic Antibodies Reveal Differences Between Two Human Leukemias. *J. Exp. Med.* 160:494.

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