

PRODUCT INFORMATION SUMMARY

Anti-CD2 E-Rosette Receptor

Purified Antibody	Product Number M240020	(0.1 mg)
Fluorescein Conjugate	Product Number M240030	100 tests (1.0 mL)
Phycoerythrin Conjugate	Product Number M240070	100 tests (1.0 mL)
APC Conjugate	Product Number M240090-AC	100 Tests

ANTIGEN DISTRIBUTION AND SPECIFICITY:

The CD2 antigen is found on greater than 95% of thymocytes and peripheral blood and lymphoid tissue T lymphocytes. It is also expressed by malignant cells of the majority of T cell leukemias and non-Hodgkin's lymphomas (1, 2). This monoclonal antibody recognizes a glycoprotein antigen with a molecular weight of approximately 50 kilodaltons and is associated with the receptor for sheep erythrocytes on human T cells.

CLONE:

ANTIGENIX clone S5.2 (Purif., FITC, and APC conjugate only) characterized by Second International Workshop on Differentiation Antigens. Derived from hybridization of murine myeloma (NS-1) cells with spleen cells from BALB/c mice immunized with human thymocytes. Affinity purified from murine ascites fluid.

Immunoglobulin chain composition: Mouse IgG2a, with kappa light chains.

CONJUGATION:

Fluorescein isothiocyanate; R-phycoerythrin; Biotin ester.

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-E-Rosette Receptor should be diluted 1:20 - 1:50, using enough reagent to cover the tissue section or cytoprep.

RESEARCH APPLICATIONS:

Monitoring of T cell levels in peripheral blood in both normal and disease states using flow cytometry, enrichment or depletion of lymphocyte populations for functional studies, 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 description on the label of the product.

SELECTED REFERENCES:

1. Knowles, D. M. 1984. Lymphoid cell markers. Amer. J. Pathol. 9:85.
2. Knowles, D. M. 1986. The human T cell leukemias. Clinical, cytomorphologic, immunophenotypic, and genotypic characteristics. Human Pathol. 17:14.

FOR RESEARCH USE ONLY. NOT INTENDED FOR THERAPEUTIC OR DIAGNOSTIC USE.

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