

## PRODUCT INFORMATION SUMMARY

### ANTI-T8 (CD8)

PRODUCT NUMBER	M210070	Phycoerythrin	100 Tests
	M210030	FITC	100 Tests
	M210020	Purified	0.1 mg

#### ANTIGEN DISTRIBUTION AND SPECIFICITY:

The CD8 antigen is present on approximately 35% of peripheral blood T lymphocytes expressing suppressor/cytotoxic function and 80% of normal thymocytes. The CD8 antigen is a glycoprotein with a molecular weight of 76 kilodaltons under non-reducing conditions with subunits of 33 and 45 kilodaltons.

#### CLONE:

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 IgG1, kappa light chains. (PE Conjugate) clone UB-1  
Mouse IgG2a, kappa (Pure, FITC Conjugates clones 3B5)

#### CONJUGATION:

R-phycoerythrin; fluorescein  
FITC

#### HANDLING AND STORAGE:

All conjugates are supplied as 1.0 mL of liquid. Fluorochromes should be protected from prolonged exposure to light. 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-T8 should be diluted 1:160, using enough reagent to cover the tissue section or cytoprep.

**RESEARCH APPLICATIONS:**

Applications include: Determination of T8 lymphocyte populations in peripheral blood by flow cytometry, evaluation of the T4/T8 ratio of patients with AIDS or other immunologic disorders, 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 well-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. Reinherz, E.L. and Schlossman, S.F. 1980. The differentiation function of human T cells. Cell 19:821.
2. Snow, P.M. and Terhorst, C. 1983. The TB antigen is a multimeric complex of two distinct subunits on human thymocytes but consist of homomultimeric forms on peripheral blood T lymphocytes. J. Biol. Chem. 258:14,675.

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