

**PERFORMANCE DATA SHEET**

1816

**Monoclonal anti-human CD25(IL2-R alpha, TAC)/R-PE \***

**mAb name/Clone:** 7G7B6

**Isotype:** Mouse IgG2ak

**Immunogen:** Stimulated PBMC

**CATALOG#:** 174-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -cell test)

**INFORMATION:** Expression of human CD25 (the alpha subunit of the IL-2 receptor complex) is dramatically upregulated on activated T cells, B cells, NK cells and macrophages (3). Antibodies to CD25 are being studied for potential use as an immunodirected therapy to selectively attack (kill) CD25 expressing cells (4). Antibody 7G7B6 recognizes epitope B of the IL-2 alpha receptor of about 55 kd (1,6). Antibody 7G7B6 does not block IL-2 binding to its receptor (1).

**References:** (1) L.A. Rubin, et al, (1985) *Hybridoma* 4: 91-102. (2) B. Boutin, et al, (1989) *Neuropediatrics* 20: 202-206. (3) T.A. Waldmann, et al, (1989) *Annu Rev Biochem* 58: 875-911. (4) T.A. Waldmann, et al, (1995) *Blood* 86: 4063-4075. (5) U.S. Patent No. 4,707,443. (6) *Leukocyte Typing IV* (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 403-406.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Do not freeze! Protect from light.

**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 2.90.

**PERFORMANCE:** Cultured human CEM were stimulated overnight in the presence of PMA (10ng/ml) and ionomycin (1µM). Five x 10<sup>5</sup> cells per tube were incubated 45 minutes on ice with 80 µl of anti-CD25/R-PE at a dilution factor of **1:50** (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.90** log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD25 antibody (Catalog #174-020).

\* **Research Use Only. Not for use in Diagnostic procedures.**

**Binding of anti-CD25/R-PE to Stimulated CEM cells**

