

PERFORMANCE DATA SHEET

1816

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

mAb name/Clone: 7G7B6

Isotype: Mouse IgG2ak

Immunogen: Stimulated PBMC

CATALOG#: 174-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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.* Freeze/thawing not recommended.

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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Cultured human CEM cells were stimulated overnight in the presence of PMA (10ng/ml) and ionomycin (1µM). Five x 10⁵ cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD25/Biotin at a concentration of 5 µg/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.88 log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD25 antibody (Catalog #174-020).

**This Product is intended for Laboratory Research use only.*

Binding of anti-CD25/Biotin to stimulated human CEM cells

