PERFORMANCE DATA SHEET

1938

Monoclonal anti-mouse CD4/PE-Cy7*

mAb name/Clone: GK1.5 *Isotype:* Rat IgG2bк

Immunogen: Mouse CTL-V4 membrane prep

CATALOG#: 704-070

QUANTITY: 120 tests VOLUME IN VIAL: 0.2ml WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Antibody GK1.5 binds to an extracellular epitope of the 55kd CD4 molecule present on a murine T cell subset (1,2). CD4 binds to MHC Class II expressed by antigen presenting cells, facilitating T Cell Receptor signaling. This clone has proven effective as a T cell depletion reagent(3).

References: 1) Wilde DB, Fitch FW, et al. (1983) *J Immunol* **131**(5):2178-2183. 2) Dialynas DP, Fitch FW, et al. (1983) *J Immunol* **131**(5):2445-2451. 3)Mochimaru H, Ishida S, et al. (2008) *Invest Ophthamol Vis Sci* **49**(5):2172-2177.

FLORESCENCE: PE-Cy7 is excited by 488 laser. Its E_{max} is 785nm.

STORAGE CONDITIONS: Store at $2 - 5^{\circ}C$. 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:_____

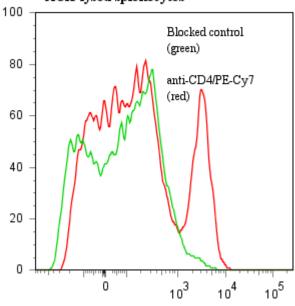
BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein G purified antibody from tissue culture supernatant was conjugated to Cy7-linked R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **250 µg/ml**.

PERFORMANCE: Reagent was tested for binding to ACK lysed murine splenocytes in FACS. Five x 10⁵ **splenocytes** per tube were washed and pre incubated with 20 μl of 300 μg/ml Mouse IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 μl of anti-Mouse CD4/PE-Cy7 at a **1:50** dilution (5 μg/ml). They were then washed three times, fixed and analyzed by FACS. A **21%** sub population of the cells stained positive with a mean shift of **1.2** log₁₀ fluorescent units when compared to background. Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-mouse CD4 antibody (Catalog #704-020).

*This Product is intended for Laboratory Research use only. Cy7 is a registered trademark of Amersham Biociences, Ltd (GE Healthcare)

Binding of anti-Mouse CD4/PE-Cy7 to ACK-lysed splenocytes



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