

PERFORMANCE DATA SHEET

1938

Monoclonal anti-mouse CD4/PE-Cy7*

mAb name/Clone: GK1.5

Isotype: Rat IgG2bk

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 Ophthalmol 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°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).

***Research use only. Not for use in Diagnostic Procedures.**

