

PERFORMANCE DATA SHEET

1915

Monoclonal anti-mouse CD4

mAb name/Clone: GK1.5

Isotype: Rat IgG2bk

Immunogen: Mouse CTL-V4 membrane prep

CATALOG#: 704-020

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/Thawing is 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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein G purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

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 20µl of 300µg/ml murine IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD4 antibody diluted to 10 µg/ml. Cells were washed twice and incubated with 2° reagent Goat anti-Rat IgG/FITC, after which they were washed three times, fixed and analyzed by FACS. A 24% sub population of the cells stained positive with a mean shift of 1.29 log₁₀ fluorescent units when compared to background.

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

