## PERFORMANCE DATA SHEET

1915

## Monoclonal anti-mouse CD4



*mAb name/Clone:* **GK1.5** *Isotype:* Rat IgG2bκ

Immunogen: Mouse CTL-V4 membrane prep

CATALOG#: 704-820 (Preservative-free)

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 Ophthamol Vis Sci* **49**(5):2172-2177.

STORAGE CONDITIONS: Store at  $2 - 5^{\circ}C$ . Freeze/Thawing is not recommended. Open under aseptic conditions.

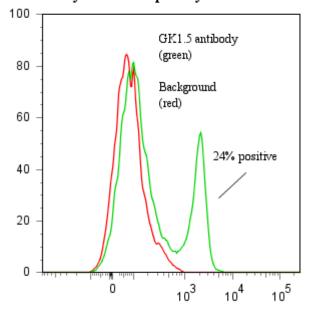
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl

**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. Product was  $0.2~\mu m$  filtered and vialed under aseptic conditions.

**PERFORMANCE:** Reagent was tested for binding to ACK lysed murine splenocytes in FACS. Five x  $10^5$  splenocytes per tube were washed and pre incubated with  $20\mu$ l of  $300\mu$ g/ml murine IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-CD4 antibody diluted to  $10~\mu$ g/ml. Cells were washed twice and incubated with  $2^O$  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  $1.29~\log_{10}$  fluorescent units when compared to background.

Binding of anti-CD4 antibody +GAR/FITC to ACK Lysed Mouse Splenocytes



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