## PERFORMANCE DATA SHEET

1915

## Monoclonal anti-mouse CD4



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

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

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/Thawing is not recommended.

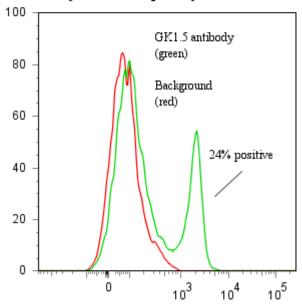
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**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 10<sup>5</sup> **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<sup>o</sup> 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<sub>10</sub> fluorescent units when compared to background.

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



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

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