PERFORMANCE DATA SHEET

1919

Monoclonal anti-mouse CD4/FITC*



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

Immunogen: Mouse CTL-V4 membrane prep

CATALOG#: 704-040
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.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/Thawing is not recommended. Protect from light.

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

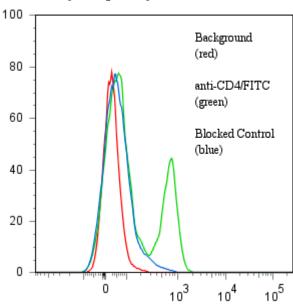
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein G purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 9.1.

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 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/FITC at a **1:50** dilution (5 μg/ml). They were then washed three times, fixed and analyzed by FACS. A 28% sub population of the cells stained positive with a mean shift of **1.4** \log_{10} 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.

Binding of anti-Mouse CD4/FITC to RBC-lysed Splenocytes



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