

# PERFORMANCE DATA SHEET

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## Monoclonal anti-mouse CD4/R-PE \*

**mAb name/Clone:** GK1.5

**Isotype:** Rat IgG2bk

**Immunogen:** Mouse CTL-V4 membrane prep

**CATALOG#:** 704-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -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.

**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% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein G purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **250 µg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.5.

**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 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/R-PE at a 1:50 dilution (5 µg/ml). They were then washed three times, fixed and analyzed by FACS. A 27% sub population of the cells stained positive with a mean shift of 2.48 log<sub>10</sub> 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.*

**Binding of anti-Mouse CD4/PE to splenocytes**

