## PERFORMANCE DATA SHEET 3019 Monoclonal anti- mouse CD8 alpha (Lyt 2)/PE-Cy7\*



## *mAb name/Clone:* 53-6.72 *Isotype:* Rat IgG2aκ *Immunogen:* murine thymocytes/splenocytes

CATALOG#: 260-070 QUANTITY: 120 tests WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Antibody 53-6.72 binds to the alpha subunit of murine CD8 for all mouse strains tested. It is a useful tool for assessing murine CD8α containing recombinant proteins. *References:* 1) Ledbetter, J.A., et al. (1979) Immunol. Rev. 47: 63-90.

FLORESCENCE: PE-Cy7 is excited by 488 laser. Its E<sub>max</sub> is 785nm.

## 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:\_\_\_\_\_\_

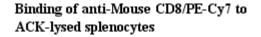
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

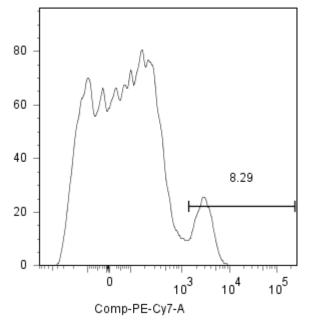
**PRODUCTION:** Protein G purified antibody from tissue culture supernatant was conjugated to Cy7-linked R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **250 µg/ml**.

**PERFORMANCE:** Reagent was tested for binding to ACKlysed murine splenocytes in FACS. Five x 10<sup>5</sup> **splenocytes** per tube were washed and pre incubated with 20  $\mu$ l of 300  $\mu$ g/ml Mouse IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-Mouse CD8/PE-Cy7 at a **1:50** dilution (5  $\mu$ g/ml). They were then washed three times, fixed and analyzed by FACS. An **8.3%** sub population of the cells stained positive with a mean shift of **0.9** log<sub>10</sub> fluorescent units when compared to background. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-mouse CD8 antibody (Catalog #260-020).

## \* Research Use Only. Not for use in Diagnostic procedures.

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