

**PERFORMANCE DATA SHEET**

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**Monoclonal anti- mouse CD8 alpha (Lyt 2)/PE-Cy7\***

*mAb name/Clone:* 53-6.72

*Isotype:* Rat IgG2ak

*Immunogen:* murine thymocytes/splenocytes

**CATALOG#:** 260-070

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**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 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 CD8/PE-Cy7 at a 1:50 dilution (5 µg/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 1.4 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 CD8 antibody (Catalog #260-020).

*\*This Product is intended for Laboratory Research use only. Cy7 is a registered trademark of Amersham Biociences, Ltd (GE Healthcare)*

**Binding of anti-Mouse CD8/PE-Cy7 to ACK-lysed splenocytes**

