## PERFORMANCE DATA SHEET 3321 Monoclonal anti-human MHC Class I (HLA-A, B and C)/R-PE\*



*mAb name/Clone:* **3F10** *Isotype:* Mouse IgG2a *Immunogen:* Human HSB-2 T cell line

## CATALOG#: 121-050 QUANTITY: 120 tests VOLUME IN VIAL: 0.2 ml WORKING DILUTION: 1:50 (or use 1.6ul of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human MHC Class I (HLA-A, B & C) molecules are expressed on nearly all nucleated cells. MHC Class I molecules consist of heterodimers of a highly polymorphic transmembrane  $\alpha$  chain and an invariant  $\beta$  chain. MHC Class I molecules bind to endogenously synthesized peptides of about 8-10 amino acids which are presented to CD8<sup>+</sup> T cells. Recent evidence now indicates exogenously derived peptides are also presented by MHC Class I molecules. Antibody 3F10 recognizes a monomorphic Class I epitope on the  $\alpha$  chain. *References:* G.S. Eisenbarth, et al, (1980) J Immunol **124**: 1237-1244. P.J. Bjorkman & P. Parham, (1990) Annu Rev Biochem **59**: 253-288. L.D. Barber & P. Parham, (1994) J Exp Med **180**: 1191-1194. K.L. Rock, (1996) Immunol Today **17**: 131-137.

## STORAGE CONDITIONS: Store at 2 - 5<sup>o</sup>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).

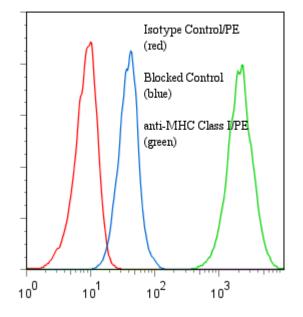
**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin

through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A565/A280 ratio of 2.98.

**PERFORMANCE:** Five x  $10^5$  cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-MHC Class I/R-PE at a **1:50** dilution (10 µg/ml). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.98**  $\log_{10}$  fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog # 281-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-MHC Class I antibody (Catalog #121-020).

\*Research use only. Not for use in Diagnostic procedures.

## Binding of anti-MHC Class I/PE to human HPB-MLT cells



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