## PERFORMANCE DATA SHEET

1750

## Monoclonal anti-human MHC Class I (HLA-A, B and C)\*

*mAb name/Clone:* **3F10** *Isotype:* Mouse IgG2a

Immunogen: Human HSB-2 T cell line

**CATALOG#: 121-020 QUANTITY: 100 μg** 

CONCENTRATION: 1.0 mg/ml

**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*. Freeze/Thawing is not recommended.

**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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x  $10^5$  cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-MHC Class I antibody at **10**  $\mu$ g/ml. Cells were washed twice and incubated with  $2^0$  reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.17**  $\log_{10}$  fluorescent units when compared to a Mouse IgG2a isotype control (Catalog #281-010) at a similar concentration.

\*This Product is intended for Laboratory Research use only.

## Binding of anti-MHC Class I mAb + GAM/FITC to human HPB-MLT cells

