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 10⁵-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 α chain and an invariant β chain. MHC Class I molecules bind to endogenously synthesized peptides of about 8-10 amino acids which are presented to CD8⁺ 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 α 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^oC. 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% NaN₃ (as a preservative).

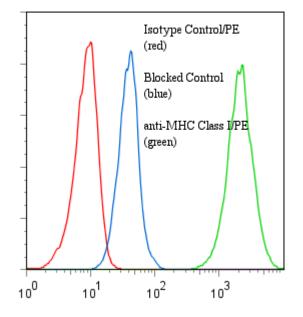
PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin

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



Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940