PERFORMANCE DATA SHEET
2125

Monoclonal anti-human MHC Class II beta chain (HLA-DP, DQ & DR)*

mAb name/Clone: **TDR31.1**
Isotype: Mouse IgG1
Immunogen: Purified class II from JY cell line

CATALOG#: 131-820 (Preservative Free)
QUANTITY: 100 µg **CONCENTRATION: 1.0 mg/ml**

INFORMATION: Human MHC Class II (HLA-DP, DQ & DR) molecules are expressed on dendritic cells, monocytes, macrophages, and myeloid cells. MHC Class II molecules are heterodimers of polymorphic transmembrane α and β chains and generally bind exogenously derived peptides of about 10-17 amino acids. MHC Class II molecules interact with the T cell receptor on $CD4^+$ T cells. Antibody TDR31.1 recognizes a monomorphic class II β chain epitope.
References: T.A. de Kretser, et al, (1982) Eur J Immunol **12**: 214-221. R. Busch & J.B. Rothbard, (1990) J Immunol Methods 134: 1-22. K.W. Wacherpfennig & J.L. Strominger, (1995) J Exp Med **181**:161-168.

STORAGE CONDITIONS: ***Store at 2 - 5°C***. **Open under aseptic conditions.** Freeze/Thawing is not recommended.

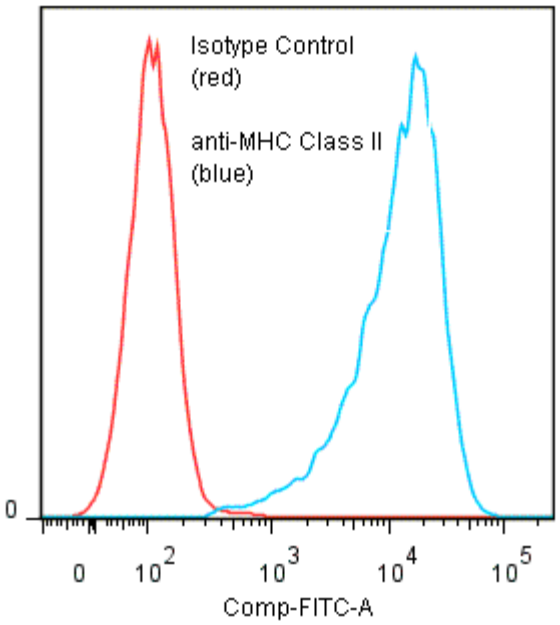
PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date:_____

BUFFER 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 µm filtered and vialed under aseptic conditions.

PERFORMANCE: Five x 10^5 cultured **Daudi** human tumor cells were incubated 45 minutes on ice with 80 µl of anti-MHC Class II antibody at **5 µg/ml**. Cells were washed twice and incubated with 2° 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 **2.08** $\log_{10}$ fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-810) at a similar concentration.

Binding of anti-MHC Class II mAb +GAM/FITC to human Daudi cells



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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