

*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#: 131-020

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. Wacherpennig & J.L. Strominger, (1995) J Exp Med **181**:161-168.

STORAGE CONDITIONS: Store at 2 - 5°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 and contains less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10⁵ 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^o 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 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010) at a similar concentration.

* *Research Use Only. Not for use in Diagnostic procedures.*

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

