

PERFORMANCE DATA SHEET

3332

Monoclonal anti-human MHC Class II (HLA-DP, DQ & DR)/R-PE*

mAb name/Clone: TDR31.1

Isotype: Mouse IgG1

Immunogen: Purified class II from JY cell line

CATALOG#: 131-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5×10^5 -cell test)

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

STORAGE CONDITIONS: Store at 2 - 5°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% 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 **250 µg/ml** with an A₅₆₅/A₂₈₀ ratio of 3.2.

PERFORMANCE: Five x 10⁵ cultured **Daudi** cells were incubated 45 minutes on ice with 80 µl of anti-MHC Class II/R-PE at a **1:50** dilution (5µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.41** log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-MHC Class II antibody (Catalog #131-020).

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

Binding of anti-MHC Class II/PE to human Daudi cells

