

## **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  $\alpha$  and  $\beta$  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<sup>+</sup> T cells. Antibody TDR31.1 recognizes a monomorphic class II  $\beta$  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. Wachterpennig & 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 10<sup>5</sup> 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<sup>o</sup> 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<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010).

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

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

