## PERFORMANCE DATA SHEET

2017



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

*mAb name/Clone:* TDR31.1 *Isotype:* Mouse IgG1

Immunogen: Purified class II from JY cell line

CATALOG#: 131-030 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. Wacherpfennig & J.L. Strominger, (1995) J Exp Med **181**:161-168.

**STORAGE CONDITIONS:** *Store at 2 - 5<sup>o</sup>C*. Freeze/thawing not recommended.

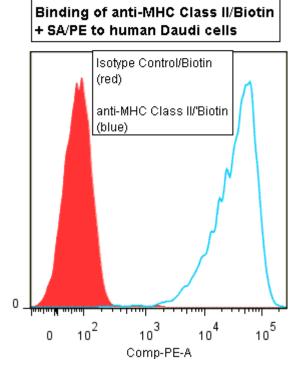
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine

immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x  $10^5$  cultured human **Daudi** cells were washed and pre incubated 5 minutes with 20 μl of 250 μg/ml human IgG (To block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-MHC Class II/Biotin at **1 μg/ml**. Cells were washed twice and incubated with  $2^0$  reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.40**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). 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).



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<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.