

PERFORMANCE DATA SHEET

1818

*Monoclonal anti-human CD83/R-PE**

mAb name/Clone: HB15e

Isotype: Mouse IgG1

Immunogen: COS cells transfected with human CD83

CATALOG#: 304-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated reagent per 5 x 10⁵-cell test)

INFORMATION: Human CD83 is a type 1 cell surface glycoprotein expressed almost solely by dendritic cells that play an important role in antigen presentation (2). Antibody HB15e recognizes the CD83 molecule of 45 kd (3).

References: (1). L-J. Zhou, et al, (1992) J Immunol 149: 735-742. (2). L-J. Zhou & T.F. Tedder (1995) J Immunol 154: 3821-3835. (3). Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 191-193.

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 **1.0 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 4.0.

PERFORMANCE: Five x 10⁵ human **Raji** cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD83/R-PE at a dilution factor of **1:50** (20 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.6 log₁₀** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD83 antibody (Catalog #304-020).

**This Product is intended for Laboratory Research use only.*

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD83/PE to human Raji cells

