

**PERFORMANCE DATA SHEET**

1818

**Monoclonal anti-human CD83/FITC\***

*mAb name/Clone:* HB15e

*Isotype:* Mouse IgG1

*Immunogen:* COS cells transfected with human CD83

**CATALOG#:** 304-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated reagent per 5 x 10<sup>5</sup>-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. Freeze/Thawing is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at 0.5 mg/ml with a Fluorescein/IgG molar ratio of 4.5.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD83/FITC at a 1:50 dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.56 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040) 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.*

**Binding of anti-CD83/FITC to human cell lines**

