

**PERFORMANCE DATA SHEET**

3109

**Monoclonal anti-human CD100/FITC \*****mAb name/Clone:** 133-1C6**Isotype:** Mouse IgM**Immunogen:** PHA stimulated human PBL**CATALOG#:** 321-040**QUANTITY:** 120 tests**VOLUME IN VIAL:** 0.2 ml**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -cell test)

**INFORMATION:** Human CD100 is a transmembrane glycoprotein that belongs to the semaphorin gene family and is found on most hematopoietic cells except RBC, platelets and immature bone marrow cells. CD100 plays a key role in lymphocyte activation (2, 3). Antibody 133-1C6 recognizes a CD100 molecule of about 150 kd.

**References:** 1)Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 534-539. 2)K.T. Hall, et al, (1996) Proc Natl Acad Sci USA 93:11780-11785. 3)A. Elhabazi, et al, (1997) J Biol Chem 272: 23515-23520.

**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, 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 size exclusion purified to 90% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.5 mg/ml** with a Fluorescein/IgM molar ratio of 29.1.

**PERFORMANCE:** Five  $\times 10^5$  cultured human **Jurkat** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD100/FITC at a 1:50 dilution (10µg/ml). Cells were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.51** log<sub>10</sub> fluorescent units when compared to a Mouse IgM/FITC control (Catalog #290-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD100 antibody (Catalog #321-020).

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

**Binding of anti-CD100/FITC to human Jurkat cells**

