

# PERFORMANCE DATA SHEET

2137

## Monoclonal anti-human CD100\*

**mAb name/Clone:** 133-1C6

**Isotype:** Mouse IgM

**Immunogen:** PHA stimulated human PBL

**CATALOG#:** 321-020

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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. 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, 500 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was purified to 95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin) using size exclusion chromatography.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human **Jurkat** cells were incubated 45 minutes on ice with 80 µl of anti-CD100 antibody at **10 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011; this reagent cross reacts well with Mouse IgM), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.87 log<sub>10</sub>** fluorescent units when compared to a Mouse IgM negative control (Catalog #290-010).

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

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

