SONY

# Product Data Sheet

## FITC anti-human CD1b

**Catalog # / Size:** 2245530 / 100 tests
2245525 / 25 tests

**Clone:** SN13 (K5-1B8)

**Isotype:** Mouse IgG1, κ

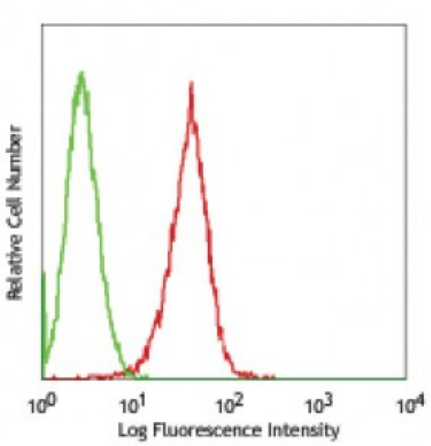
**Immunogen:** Membrane antigen preparation of human thymocytes

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific




Human T lymphoblastic leukemia cell line, Molt-4, stained with SN13 (K5-1B8) FITC

## Applications:

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:**
1. Hayes SM, et al. 2001. J Immunol. 166:403.
2. Martin LH, et al. 1987. Proc Natl Acad Sci USA. 84:918993.

---

**Description:** CD1b is a 43 kD member of the immunoglobulin superfamily also known as R1. It is a type I membrane glycoprotein with structural similarities to MHC class I and is non-covalently associated with β2-microglobulin. In humans, CD1 family consists of group I proteins (CD1a, CD1b, CD1c), group II (CD1d), and group III (CD1e). CD1b plays a role in non-peptide glycolipid antigen presentation to CD1-restricted T cells. It is expressed on cortical double positive and single positive thymocytes, Langerhans cells, and dendritic cells. In addition to antigen presentation, CD1b has been implicated in thymic T cell development.

**Antigen References:**
1. Porcelli S, *et al. 1992. Nature 360:5937.*
*2. Giuliani A, et al. 2001. Infect Immun. 69:746170.*


Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com