SONY

# Product Data Sheet

## PerCP anti-human CD1c

**Catalog # / Size:** 2257560 / 100 tests
2257555 / 25 tests

**Clone:** L161

**Isotype:** Mouse IgG1, κ

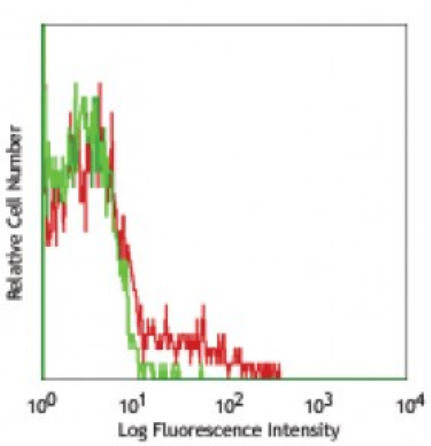
**Reactivity:** Human

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

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

**Workshop Number:** V T-CD01.18

**Concentration:** Lot-specific




Human peripheral blood lymphocytes stained with L161 PerCP

## Applications:

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells in 100 microL volume or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunocytochemical staining1.

**Application References:**

1. M. del Salamone C, *et al.* 2001. *J. Leukoc. Biol.* 70:567.
2. de Fraissinette A, *et al.* 1988. *Exp. Hematol.* 16:764.
3. Li D, *et al.* 2012. *J. Exp Med.* 209:109. PubMed
4. Balan S, *et al.* 2014. *J Immunol.* 193:1622. PubMed

**Description:** CD1c, also known as R7 or M241, is a 43 kD member of the five CD1 antigens (CD1a-e) in humans. The CD1 molecules are type I glycoprotein with structural similarities to MHC class I and are non-covalently associated with $\beta_2$-microglobulin, belonging to the Ig superfamily. CD1c is expressed on cortical thymocytes, Langerhans cells, dendritic cells, and a subset of B cells. It has been reported that CD1c is also expressed on mature T cells in a tightly regulated manner. CD1c is involved in antigen-presentation of glycolipids. It may also act in T cells as an immune regulatory molecule.

**Antigen References:**

1. Fainboim LM and del C. Salamone. 2002. *J. Biol. Reg. Homeos. Ag.* 16:125.
2. M. del Salamone C, *et al.* 2001. *J. Leukocyte Biol.* 70:567.
3. Zola H, *et al.* Eds. 2007. Leukocyte and Stromal Cell Molecules:Th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