

PE/Cy7 anti-human CD1c

Catalog # / Size: 2257575 / 25 tests
2257580 / 100 tests

Clone: L161

Isotype: Mouse IgG1, κ

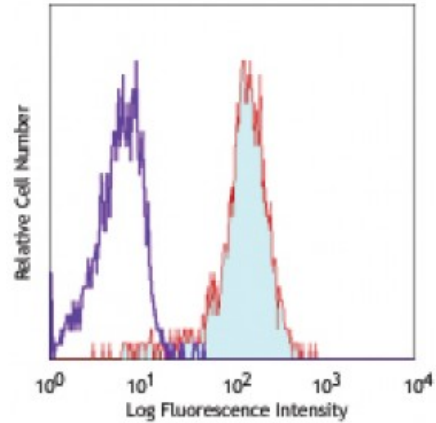
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 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 T lymphoblastic leukemia cell line Molt-4 stained with L161 PE/Cy7.

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 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. Pritchard AL, *et al.* 2014. *PLoS One.* 9:106501. [PubMed](#)
 5. Maney NJ, *et al.* 2014. *J Immunol.* 193:4914. [PubMed](#)
 6. Lee J, *et al.* 2015. *J Exp Med.* 212:385. [PubMed](#)
 7. Breton G, *et al.* 2015. *J Exp Med.* 212:401. [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 β_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*