

## PE/Cy7 anti-human CD1c

**Catalog # / Size:** 331515 / 25 tests  
331516 / 100 tests

**Clone:** L161

**Isotype:** Mouse IgG1,  $\kappa$

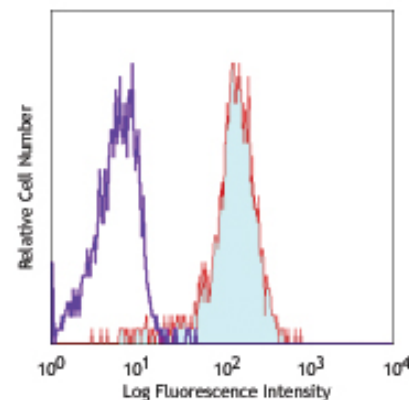
**Workshop Number:** V T-CD01.18

**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).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human T lymphoblastic leukemia cell line Molt-4 stained with L161 PE/Cy7.

## Applications:

**Applications:** FC - Quality tested

**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  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunocytochemical staining<sup>1</sup>.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

**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.

**Description:** CD1c, also known as R7 or M241, is a 43 kD member of the five CD1 antigens (CD1a-e) in human. The CD1 molecules are type I glycoprotein with structural similarities to MHC class I and a non-covalent associated with  $\beta_2$ -microglobulin, belonging to 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 with tightly regulated manner. The function of 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: The CD Markers.* P42.

Related Products:	Product	Clone	Application
	PE/Cy7 Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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