

# Product Data Sheet

## Alexa Fluor® 647 anti-human CD1c

**Catalog # / Size:** 331509 / 25 tests  
331510 / 100 tests

**Clone:** L161

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

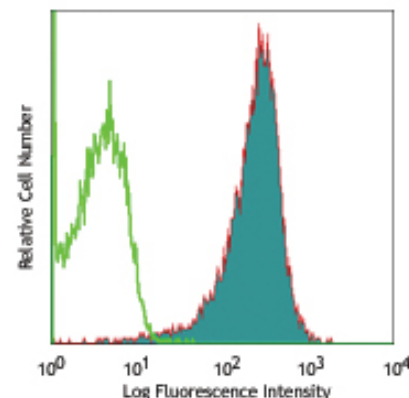
**Workshop Number:** V T-CD01.18

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

**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 Alexa Fluor® 647

## Applications:

**Applications:** FC - Quality tested

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

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

\*\* Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

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

**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
	Alexa Fluor® 647 Mouse IgG1, $\kappa$ Isotype Ctrl (FC)	MOPC-21	FC, IF
	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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