SONY

Product Data Sheet

Alexa Fluor® 647 anti-human CD1c

Catalog # / Size: 2257550 / 100 tests

Clone: L161

Isotype: Mouse IgG1, κ

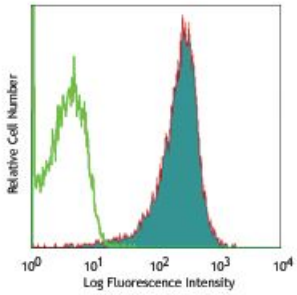
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

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

Workshop Number: V T-CD01.18

Concentration: Lot-specific



Human T lymphoblastic leukemia cell line, Molt-4, stained with L161 Alexa Fluor® 647

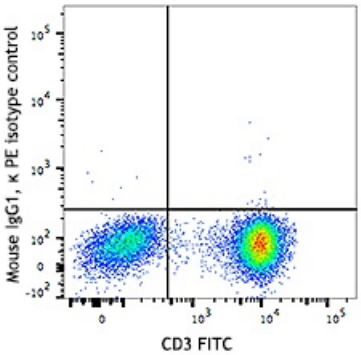
Applications:

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 µl per million cells or 5 µl per 100 µl 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.

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



Application References:

1. del C Salamone M, *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. Xu C, *et al.* 2010. *Am J Hematol*. 85:539 (IHC-F)
5. Gerlini G, *et al.* 2001. *J Invest Dermatol.* 117:576 (IHC-F)
6. Poposki J, *et al.* 2016. *Clin Exp Allergy* 45:384 (IHC-P) 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.

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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.

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