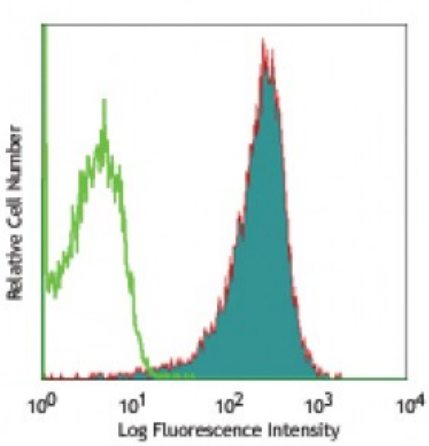
SONY

Product Data Sheet

Alexa Fluor® 647 anti-human CD1c

Catalog # / Size:	2257550 / 100 tests
Clone:	L161
Isotype:	Mouse IgG1, κ
Reactivity:	Human
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 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 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 microL per million cells or 5 microL per 100 microL 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. M. del Salamone C, *et al.* 2001. *J. Leukoc. Biol.* 70:567. 2. de Fraissinette A, *et al.* 1988. *Exp. Hematol.* 16:764. 2. Li D, *et al.* 2012. *J. Exp Med.* 209:109. 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

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