

Brilliant Violet 785™ anti-human CD1c

Catalog # / Size: 2257715 / 25 tests
2257720 / 100 tests

Clone: L161

Isotype: Mouse IgG1, κ

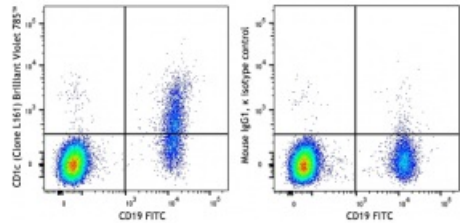
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ and unconjugated antibody.

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 peripheral blood lymphocytes were stained with CD19 FITC and CD1c (clone L161) Brilliant Violet 785™ (left), or mouse IgG1, κ Brilliant Violet 785™ isotype control (right).

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 in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd.

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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.

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.