Product Data Sheet

APC/Fire™ 750 anti-human CD1a

Catalog # / 2100710 / 100 tests

Size: 2100705 / 25 tests

Clone: HI149

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with

APC/Fire™ 750 under optimal

conditions.

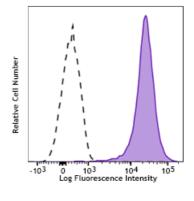
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop Number: V CD01.01

Concentration: Lot-specific



Human T leukemia cell line (MOLT-4) was stained with CD1a (clone HI149) APC/Fire™ 750 (filled histogram) or mouse IgG1, κ APC/Fire™ 750 isotype control (open histogram).

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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes:

Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections.

Application References:

- 1. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- 2. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
- 3. Patton KM, et al. 2005. Infect. Immun.73:2083. PubMed
- 4. Curti A, et al. 2010. Haematologica. 95:2022. PubMed

Description:

CD1a is a 49 kD member of the immunoglobulin superfamily also known as T6 and R4. It is a type I membrane glycoprotein with structural similarities to MHC class I and is non-covalently associated with β_2 -microglobulin. CD1a plays a role in non-peptide glycolipid antigen presentation to CD1-restricted T cells. It is expressed on cortical double positive and single positive thymocytes, Langerhans cells, and dendritic cells. In addition to antigen presentation, CD1a has been implicated in thymic T cell development.

Antigen References:

- 1. Blumberg RS, et al. 1995. Immunol. Rev. 147:5.
- 2. Calabi F, et al. 1991. Tissue Antigens 37:1.
- 3. Melian A, et al. 1996. Curr. Opin. Immunol. 8:82.