

FITC anti-human CD1a

Catalog # / Size: 2100515 / 25 tests
2100520 / 100 tests

Clone: HI149

Isotype: Mouse IgG1, κ

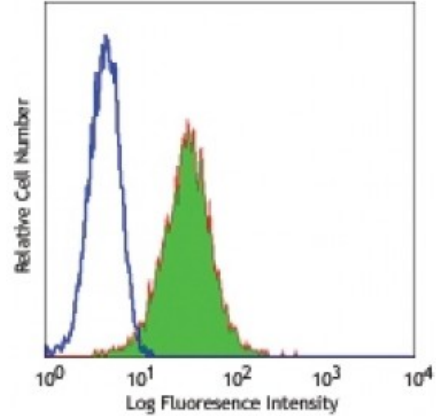
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

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 lymphoblastic leukemia cell line Molt-4 stained with HI149 FITC

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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

Application References:

- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
- Patton KM, *et al.* 2005. *Infect. Immun.*73:2083. [PubMed](#)
- Curti A, *et al.* 2010. *Haematologica.* 95:2022. [PubMed](#)
- Takechi CH, *et al.* 2013. *Nephrol Dial Transplant.* 28:3004. [PubMed](#)
- Trabanelli S, *et al.* 2014. *J Immunol.* 192:1231. [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:

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