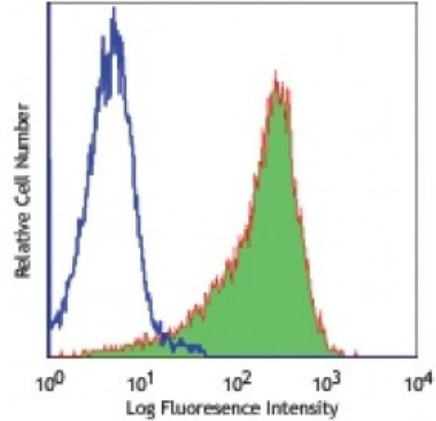


Biotin anti-human CD1a

Catalog # / Size: 2100560 / 100 µg
Clone: HI149
Isotype: Mouse IgG1, κ
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number: V CD01.01
Concentration: 0.5



Human T lymphoblastic leukemia cell line Molt-4 stained with biotinylated HI149, followed by Sav-PE

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 ≤0.5 microg per million cells in 100 microL volume. 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: 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 β₂-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.