

# Product Data Sheet

## Purified anti-human CD1a

**Catalog # / Size:** 300101 / 25 µg  
 300102 / 100 µg

**Clone:** HI149

**Isotype:** Mouse IgG1, κ

**Workshop Number:** V CD01.01

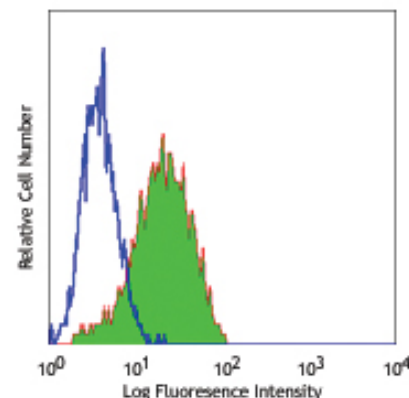
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



Human T lymphoblastic leukemia cell line Molt-4 stained with purified HI149, followed by anti-mouse IgGs FITC

## Applications:

**Applications:** FC - *Quality tested*  
 IHC - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl 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 β<sub>2</sub>-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.

### Related Products:

**Product**  
 Purified anti-human CD83  
 Purified Mouse IgG1, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 HB15e  
 MOPC-21

**Application**  
 FC, IHC  
 FC, ICFC, ICC, IF, IHC, IP, WB  
 FC, ICC, ICFC  
 FC, ICFC



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