





Anti-Human CD1a (HI149)

	REF			[A]	
FITC APC	IAF-100T IAA-100T	100 test 100 test	20 µL/test 20 µL/test	0,05 mg/ml 0,05 mg/ml	RUO

1. PRODUCT DESCRIPTION

Clone: HI149;
Isotype: IgG1;
Tested application: flow cytometry;
Immunogen: The anti-CD1a monoclonal antibody derives from leukemia cells;
Species reactivity: Human;
Storage instruction: store in the dark at 2-8 °C;
Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃);
Recommended usage: Immunostep's CD1a, clone HI149^(1,2), is a monoclonal antibody intended for the identification and enumeration of human thymocyte antigen, present thymocytes using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using I test for 10⁶ cells;
Presentation: liquid;
Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
Purification: Affinity chromatography;
Other names: Leu-6, T6, R4;
Gene ID: 909;
Molecular weight: Ig superfamily, MHC I-like molecule, type I transmembrane glycoprotein, 49 kDa.

2. ANTIGEN DETAILS

Large description: This antibody reacts with the CD1a antigen which is found on human thymocytes and certain thymomas, on Langerhans cells in the skin, dermal dendritic cells and brain astrocytes. The antigen is a membrane glycoprotein which is expressed non-covalently with b2 - microglobulin and is closely similar to human thymocyte antigen-I. ⁽³⁻⁵⁾

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to www.immunostep.com technical support for more information.

5. PROTOCOL






Direct Immunofluorescence Cell Surface Staining Protocol

1. Transfer 100 µl (10⁶ cells/test) of the sample to a 12 x 75 mm polystyrene test tube.
2. Add the suggested volume indicated on the antibody vial to the 12x75 mm cytometer tube.
3. Mix well and incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
4. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution).
5. Centrifuge tubes at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
6. Resuspend and wash with 3-5 mL of PBS at 540xg for 5 min.
7. After removing the supernatant and resuspending the cell pellet, add 300 µL of PBS and acquire on the flow cytometer are recorded.
8. Analyse on a flow cytometer or store at 2- 8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

6. REFERENCES

1. Knapp W. Leucocyte typing IV : white cell differentiation antigens. Oxford: Oxford University Press; 1989.
2. Schlossman SF. Leucocyte typing V : white cell differentiation antigens : proceedings of the Fifth International Workshop and Conference : held in Boston, USA, 3-7 November, 1993. Oxford: Oxford University Press; 1995.
3. Calabi F, Bradbury A. The CD1 system. Tissue Antigens 1991 Jan;37(1):1-9.
4. Escribano L, Orfao A, Villarrubia J, Diaz-Agustin B, Cervero C, Rios A, et al. Immunophenotypic characterization of human bone marrow mast cells. A flow cytometric study of normal and pathological bone marrow samples. Anal Cell Pathol 1998;16(3):151-9.
5. Hanau D, Schmitt DA, Bieber T, Schmitt D, Cazenave JP. Possible mechanism of action of CD1a antigens. J Invest Dermatol 1990 Nov;95(5):503-5.

7. EXPLANATION OF SYMBOLS

	Form
REF	Catalog reference
	Contains sufficient for > test
	Quantity per test
	Regulatory Status
RUO	Research Use Only
[A]	Concentration
	Manufacturer

8. MANUFACTURED BY:



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