

Monoclonal Antibody CD1a

PN IM0130 – Purified – Freeze-dried – 0.2 mg – Clone BL6

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

The CD1a antigen is a membrane glycoprotein with a molecular weight of 49 kDa (1) expressed in association with beta2-microglobulin (2).

This antigen is found on cortical thymocytes (strongly), Langerhans cells (3) and interdigitating cells.

The CD1a antigen is also present on a B cell subset. CD1a antibodies are useful in the definition of the thymic stage of T cells.

The BL6 monoclonal antibody has been assigned to the CD1a cluster of differentiation at the third International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1986 (4).

REAGENT

Monoclonal Antibody CD1a
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Clone	BL6
Isotype	IgG1 κ , mouse
Immunogen	Human thymocytes
Hybridoma	SP2/O-Ag14 x Balb/c spleen cells
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Studies of CD1a positive cells by flow cytometry.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.

2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

SELECTED RESEARCH REFERENCES

1. Amiot, M., Bernard, A., Raynal, B., Knapp, W., Deschildre, C., Boumsell, L., "Heterogeneity of the first cluster of differentiation and epitopic mapping of three CD1 molecules on normal human thymus

cells", 1986, *J. Immunol.*, 136, 1752-1758.

2. Martin, L.H., Calabi, F., Lefebvre, F.A., Bilsband, C.A.G., Milstein, C., "Structure and expression of the human thymocyte antigens CD1a, CD1b, CD1c", 1987, *Proc. Natl. Acad. Sci. USA.*, 84, 8189-9193.
3. Yonish-Rouach, E., Schmidt Viac, J., Knowles, R., Cordier, G., Brochier, J., "Monoclonal anti thymic cell antibodies detecting epidermal cells", 1984, *Thymus*, 6, 67-78.
4. Köeller, U., Groh, V., Majdic, O., Stockinger, H., Knapp, W., "Subclustering of CD1 antibodies on the basis of their reaction pattern with different types of dendritic cells", 1987, *Leucocyte Typing III, White Cell Differentiation Antigens*, Mc Michael, A.J., et al., Eds., Oxford University Press, 85-86.

PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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