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TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

PE Anti-Mouse I-A^d Monoclonal Antibody

CL8713PE

LOT: 8351

DESCRIPTION:

Cedarlane's CL8713PE is a cytotoxic monoclonal antibody specific for cells expressing the Ia antigen coded for by the A subregion of the d, b, p, and q haplotypes. (ie. I-A^{d,b,p,q})

PRESENTATION:

50µg R-PE conjugated Ig buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

Store at 4°C. **DO NOT FREEZE.** Avoid prolonged exposure to light.

For more information or to place an order please contact...

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SPECIFICATIONS:

Clone: 34-5-3s

Hybridoma Production:

Immunization: Immunogen: BDF spleen
Donor: C3H/He spleen

Fusion Partner: SP2/0-Ag14

Specificity: Mouse I-A^d

Ig Class: Mouse IgG_{2a}

Format: R-PE conjugated Ig buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. (Purified from ascitic fluid via Protein G Chromatography)

Antibody Concentration: 0.1 mg/ml

FLOW CYTOMETRY ANALYSIS:

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte[®]-M Cell Separation Medium (CL5030).
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2×10^7 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test).
4. To each tube, add 0.2 - 0.1 μ g* of **CL8713PE** per 10^6 cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
(It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 μ l ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 μ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:

- A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

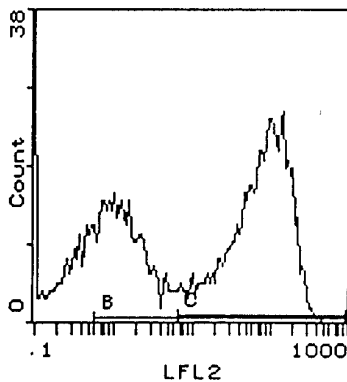
Cell Concentration : 1×10^6 cells per test

Antibody Concentration Used: $0.1 \mu\text{g}/10^6$ cells

Isotypic Control: PE Mouse IgG_{2a}

Cell SourcePercentage of cells stained above control:

Spleen	52.0%
Lymph Node	13.5%



Cell Source: Spleen

Percentage of cells stained above control: 52.0%

N.B. Appropriate control samples should always be included in any labelling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

R-Phycoerythrin conjugates are produced under license and protected under Stanford University held patents 4,520,110; 4,542,104; 4,859,582; 5,055,556 (U.S.); 76695 (EPC); 548440 (Australia); 1,179,942 (Canada); and 1,594,827 (Japan).

Strain Distribution by Flow Cytometry Analysis:

Procedure: As above

Antibody Concentration: 0.2 µg/10⁶ cells

Strains Tested: A.TH, A.TL, C3H/He, C57BL/6, DBA/1

Positive: C57BL/6, DBA/1

Negative: A.TH, A.TL, C3H/He

REFERENCES:

1. Ozato, K. et al. 1982. Monoclonal Antibodies to Mouse Major Histocompatibility Complex Antigens. *Transplantation*. **34**: 113-120.
2. Ahn, H.J. et al. 1997. A Mechanism Underlying Synergy Between IL-12 and IFN-γ-Inducing Factor in Enhanced Production of IFN-γ. *Journal of Immunology*. **159**: 2125-2131.

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