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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 CD11a Monoclonal Antibody

CL8915PE
CL8915PE-3
LOT: 1551

DESCRIPTION:

Cedarlane's anti-mouse CD11a (Ly 15.2, LFA-1) monoclonal antibody identifies a cell surface glycoprotein consisting of two non-covalently associated chains with molecular weights of 180kDa (α chain) (1) present on most common lymphocytes and T and B cells.

PRESENTATION:

50 µg PE (CL8915PE) or 300 µg (CL8915PE-3) conjugated Ig buffered in PBS, 0.02% NaN_3 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: 8-6.2

Hybridoma Production:

Immunization: Immunogen B6-Ly-1^a Thymus, spleen and lymph node
Donor: 129/ReJ spleen
Fusion Partner: P3 - NS - 1 Ag-4

Specificity: Mouse CD11a

Ig Class: Mouse IgG_{2a}

Format: R-PE conjugated Ig buffered in PBS, 0.02% NaN_3 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 $2x10^7$ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain $1x10^6$ cells, representing 1 test).
4. To each tube, add **2.0** µg***** of **CL8915PE or CL8915PE-3** 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 µl ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

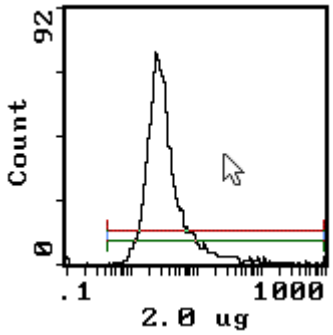
Media:

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:

Mouse Strain: CBA/J
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 2.0 µg/10^6 cells
Isotypic Control: PE Mouse IgG_{2a} (CLCMG2A04)

Cell Source	Percentage of cells stained above control:
Thymus	98.3
Lymph Node	99.6



Cell Source: Lymph Node
Percentage of cells stained above control: 99.6%

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

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

Strain Distribution by Flow Cytometry Analysis:

Procedure: see page 2
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: 1.0 µg/10^6 cells
Strains Tested: /6, BALB/c, AKR, CBA/J, C3H/HE

Positive: C57BL/6, CBA/J, C3H/He
Negative: BALB/c, AKR

REFERENCES

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2. Hogarth, P. Mark, Ian D. Walker, Ian F.C. McKenzie, and Timothy A. Springer. 1985. The Ly-15 alloantigenic system: A Genetically Determined Polymorphism of the Murine Lymphocyte Function - Associated Antigen -1 Molecule. Proc. Natl. Acad. Sci. USA. 82: 526-530.
3 Potter, Terry A., P. Mark Hogarth, and Ian F.C. Mckenzie. 1981. Ly 15; A New Murine Lymphocyte Alloantigenic Locus. Transplantation. 31 (5): 339-342.
4. Marchalonis, John J. ed. The Lymphocyte Structure and Function. 1988. Marcel Dekker, Inc. Nw York. p. 250 - 253.

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