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% 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.
**SPECIFICATIONS:**

Clone: 8-6.2

Hybridoma Production:

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

Specificity: Mouse CD11a

Ig Class: Mouse IgG_2α

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 2x10⁷ cells/ml in media A. Add 50 μl of this suspension to each tube (each tube will then contain 1x10⁶ cells, representing 1 test).
4. To each tube, add 2.0 μg* of CL8915PE or CL8915PE-3 per 10⁶ 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: $1 \times 10^6$ cells per test  
Antibody Concentration Used: 2.0 µg/$10^6$ cells  
Isotypic Control: PE Mouse IgG2a (CLCMG2A04)

<table>
<thead>
<tr>
<th>Cell Source</th>
<th>Percentage of cells stained above control:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thymus</td>
<td>98.3</td>
</tr>
<tr>
<td>Lymph Node</td>
<td>99.6</td>
</tr>
</tbody>
</table>

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: $1 \times 10^6$ 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


FOR RESEARCH USE ONLY
® is a registered trademark of Cedarlane Laboratories Ltd.

EJ 06/05