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**Purified Anti-Mouse CD18
Monoclonal Antibody**

CL8917AP

LOT:

DESCRIPTION:

Cedarlane's anti-mouse CD18 (LFA-1 β) is specific for the common β_2 subunit of LFA-1 (CD11a/CD18), MAC-1 (CD11b/CD18) and P150,95 (CD11c/CD18)^{2,3}. These three β_2 integrins, which function in cell-cell adhesion in the immune system, are also known as leukocyte integrins because their expression is limited to leukocytes^{2,3}. The C71/16 mAb can be used for immunoprecipitation¹, IHC of acetone-fixed frozen sections, and immunostaining for flow cytometry.

This antibody is suitable for use in flow cytometry.

PRESENTATION:

200 μ g purified Ig buffered in PBS and 0.1% sodium azide (NaN₃)

STORAGE/STABILITY:

Store at 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles. Check label for expiry date.

SPECIFICATIONS:

Clone: C71/16

Specificity: Mouse CD18 (LFA-1 β)

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

CEDARLANE®
LABORATORIES LIMITED



toll free: 1-800-268-5058
in North America

phone: (905) 878-8891 • fax: (905) 878-7800

5516 - 8th Line, R.R.#2, Hornby, Ontario, CANADA L0P 1E0

or visit our website for a list of our international distributors including contact information

website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

Immunogen: cell membrane glycoproteins derived from BW5147 cells¹

Ig Class: Rat IgG_{2a}

Antibody Concentration: 0.2 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 1.0 μ g* of **CL8917AP**.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add 100 μ l of secondary antibody **CLCC40001** (FITC Goat anti-rat IgG (H+L)) at 1:500 dilution.
9. Incubate the tubes at 4°C for 30-60 minutes.
(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C in media B.
11. Resuspend the cell pellet in 50 μ l ice cold media B.
12. 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 μ l of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μ l of 2M sodium azide in 100 mls).

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.**

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REFERENCES:

- 1) Trowbridge, I.S. and Omary, M.B. 1981. "Molecular complexity of leukocyte surface glycoproteins related to the macrophage differentiation antigen MAC-1. J. Exp. Med. 154:1517-1524.
- 2) Springer, T.A. 1990. Adhesion receptors of the immune system. Nature 346:425-434.
- 3) Springer, T.A. 1994. Traffic signs for lymphocyte recirculation and leukocyte emigration: The multistep paradigm. Cell 76:301-314
- 4) Springer, T., Davignon, D., Ho, M., Kruzing, K., Martz, E. and Sanches-Madrid, F., 1982 LFA-1 and Lym-2,3, molecules associated with T lymphocyte-mediated Killing; and Mac-1, and LFA-1 homologue associated with complement receptor function. Immunol. Rev. 68: 171-195.
- 5) Larson, R.S. and Springer, T.A. 1990 Structure and function of leukocyte integrins. Immunol. Trv. 114:181-217.

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