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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Biotin Anti-Rat CD11a (LFA-1 α Chain) Monoclonal Antibody

CL017B
LOT:

DESCRIPTION:

LFA-1 (lymphocyte function associated molecule-1) is one of the leukocyte integrins. It is a heterodimer consisting of α and β subunits of 160-170 kDa and 95-100 kDa respectively.

LFA-1 promotes non-antigen dependent adhesion of T-cells to a variety of lymphoid cells that bear its complementary receptor I-CAM-1 (1). It has a broad distribution and is found on most common lymphocytes.

Cedarlane's CL017B is specific for the α subunit of LFA-1. It inhibits homeotypic aggregation of PHA blasts and blocks the binding of rat lymphocytes to purified rat ICAM-1 (1).

Applications include immunoprecipitation, flow cytometric analysis, immunohistochemistry, cryostat sections, and *in vivo/in vitro* functional studies (1,2,3).

PRESENTATION:

100 µg, Biotin conjugated Ig buffered in PBS + 0.1% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

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

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

CEDARLANE® LABORATORIES LIMITED

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

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

SPECIFICATIONS:

Clone: WT.1

Hybridoma Production:

Immunization: Immunogen: Rat Splenic PHA blasts
Donor: BALB/c spleen

Fusion Partner: Mouse myeloma cell line PAI

Specificity: Rat CD11a (LFA-1 α chain)

Ig Class: Mouse IgG_{2a}

Antibody Concentration: 0.1 mg/ml.

FLOW CYTOMETRY ANALYSIS:

Method:

1. Prepare cell suspension in Media A. For cell preparations, deplete the red blood cell population with Lympholyte®-Rat cell separation medium (CL5040).
2. Wash 2 times.
3. Resuspend 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 contains $1x10^6$ cells representing 1 test).
4. To each tube add 1.0 µg of **CL017B**.
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 µl of secondary antibody **CLCSA1001** (Streptavidin-FITC) at a 1/700 dilution.
9. Incubate 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 µl ice cold Media B.
12. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in phosphate buffered saline. (This stains dead cells by intercalating 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).

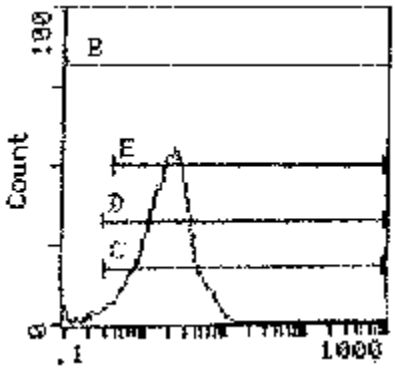
Results:

Tissue Distribution by Flow Cytometric Analysis:

Rat Strain: Wistar
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: 1.0 µg/10^6 cells

Isotypic Control: Biotin Mouse IgG_{2a},k

Cell Source	Percentage of cells stained above control:
Thymus	95.3%



LFL1
Cell Source: Thymus
Percentage of cells stained above control: 95.3%

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.**

REFERENCES:

1. Tamatani, T., M. Kiotani and M. Miyasaka. 1991 Molecular mechanisms underlying lymphocyte recirculation II. Differential regulation of LFA-1 in interaction between lymphocytes and high endothelial cells. Eur. J. Immunol., 21 855 - 858.
2. Tamatani, T., Kotani, M., Miyaska, M., Characterization of the rat leukocyte integrin, CD11/CD18, by the use of LFA-1 subunit-specific monoclonal antibodies. Eur. J. Immunol. 21:627-633 (1991)
3. Yamazaki, T. *et al*. Expression of intercellular adhesion molecule-1 in rat heart with ischemia/reperfusion and limitation of infarct size by treatment with antibodies against cell adhesion molecules. Am. J. of Path. 143:410-418

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