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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

PE Anti-Rat CD11a (LFA-1 αChain) Monoclonal Antibody

CL017PE
CL017PE-4

LOT: 1751

DESCRIPTION:

LFA-1 (lymphocyte function associated molecule-1) is one of the leukocyte integrins. It is a heterodimer consisting of αand βsubunits 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 CL017F 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).

This product is suitable for use in flow cytometry.

PRESENTATION:

50 µg (CL017PE) or 200 µg (CL017PE-4) 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.

STORAGE/STABILITY:

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

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

CEDARLANE®
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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}

Format: PE conjugated Ig buffered in PBS, 0.2 % NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

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®-Rat cell separation medium (CL5040).
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 1 x 10^6 cells, representing 1 test).
4. To each tube, add 0.5µg* of **CL017PE** 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).

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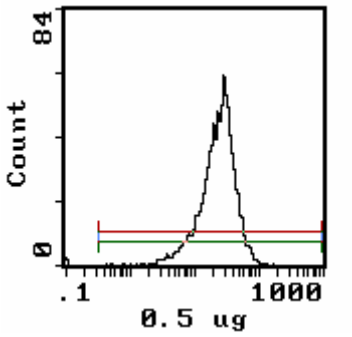
Results:

Tissue Distribution by Flow Cytometric Analysis:

Rat Strain: Wister
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: $0.5\mu g/10^6$ cells
Isotypic Control: PE Mouse IgG_{2a} (CLCMG2A04)

Cell Source	Percentage of cells stained above control:
Thymus	99.5%
Spleen	96.8%
Bone Marrow	48.0%



Cell Source: Thymus
Percentage of cells stained above control: 99.5%

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.

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