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- Gefahrgutzuschlag
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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

FITC Anti-Mouse CD11a (LFA-1) Monoclonal Antibody

CL8985F
CL8985F-3
LOT: 8531

DESCRIPTION:

Cedarlane's anti-mouse CD11a monoclonal antibody (Clone: IBL-6/2) recognizes the LFA-1 (CD11a) antigen in mice. The LFA-1 is expressed on leukocytes and it mediates cell-cell and cell-adhesion by binding to CD54 and ICAM-2). This clone has been reported to work in immunohistochemistry (acetone-fixed frozen sections), flow cytometry and immunoprecipitation. The FITC conjugated format is especially useful for direct flow cytometry.

PRESENTATION:

100 µg (CL8985F) or 300 µg (CL8985F-3) FITC 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. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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: IBL-6/2

Hybridoma Production:

Immunization: Immunogen: EL4 (mouse thymoma cell line)
Donor: Wistar spleen

Fusion Partner: Sp-2/0Ag14

Specificity: Mouse CD11a (LFA-1)

Ig Class: Rat $IgG_{1/k}$

Format: FITC 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 1×10^6 cells, representing 1 test).
4. To each tube, add 0.5 – 0.2 µg* of **CL8985F or CL8985F-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.

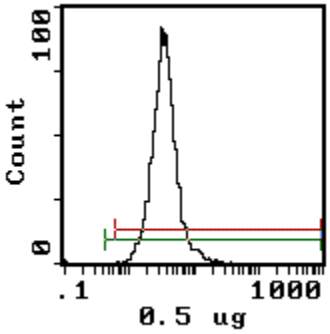
Media:

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:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.2 µg/10^6 cells
Isotypic Control: FITC Rat IgG_1



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.**

REFERENCES:

Unpublished

FOR RESEARCH USE ONLY

EJ 11/04