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- Diagnostik & molekulare Diagnostik
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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Biotin Anti-Mouse CD106 (VCAM-1) Monoclonal Antibody

CL8955B
CL8955B-3
LOT: 0300A0609

DESCRIPTION:

Cedarlane's anti-mouse CD106 (VCAM-1) monoclonal antibody recognizes an antigen that is constitutively expressed on bone marrow stromal cells and myeloid cells, and its expression on endothelial cells is upregulated by inflammatory cytokines and in certain pathologic conditions. VCAM-1 is a counter-receptor for VLA-4 ($\alpha_4\beta_1$ integrin) and LPAM-1 ($\alpha_4\beta_7$ integrin).

This antibody is suitable for use in flow cytometry. This clone is also reported work with frozen sections.

PRESENTATION:

100 µg (CL8955B) or 300 µg (CL8955B-3) Biotin conjugated Ig buffered in PBS, 0.1% sodium azide (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. Check label for expiry date.

SPECIFICATIONS:

Clone: M/K-2

Specificity: Mouse CD106 (VCAM-1))

Ig Class: Rat IgG_1

Antibody Concentration: 0.1 mg/ml

Continued Overleaf….

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

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

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 ~0.25 µg* of **CL8955B or CL8955B-3** per 1×10^6 cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add 100 µl of secondary antibody **CLCSA1004** (Streptavidin-PE) at a 1:500 dilution.
9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C.
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 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:

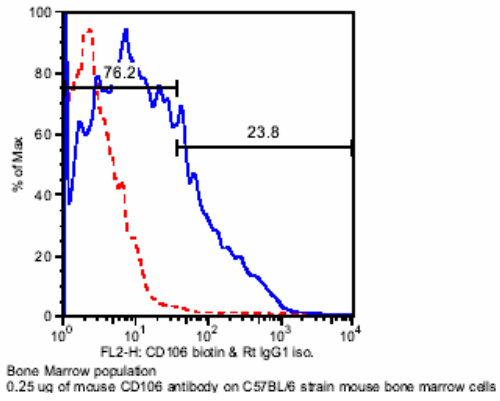
Tissue Distribution by Flow Cytometry Analysis:
(Representative Histogram)

Mouse Strain: C57BL/6

Cell Concentration: $1x10^6$ cells per tests

Antibody Concentration Used: 0.25 µg/ 1×10^6 cells

Isotypic Control: Biotin Rat IgG_1



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. Kinashi, T. and T.A. Springer. 1994. Adhesion molecules in hematopoetic cells. *Blood Cells*. 20: 25-44.

Laboratory Reagent For Research Use Only