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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Purified Anti-Rat CD54 (ICAM-1) Monoclonal Antibody

CL054AP
LOT: 41001208

DESCRIPTION:

Cedarlane's purified anti-rat CD54 (ICAM-1) monoclonal antibody recognizes the rat intercellular adhesion molecule-1, designated as CD54. ICAM-1 is a 90kDa adhesion molecule belonging to the superimmunoglobulin family. It is a cell surface ligand of the lymphocyte integrin, LFA-1 (lymphocyte function associated antigen-1) and is known to play an important role in various cell-cell interactions in the immune system. ICAM-1 exists on fibroblasts, epithelial and endothelial cells.

This monoclonal antibody inhibits homotypic aggregation of PHA blasts. Immunoprecipitation analysis shows that the antigen has features identical to those of human ICAM-1. Antigen distribution is in full agreement with that reported with the human ICAM-1.

Applications include immunoprecipitation, flow cytometry analysis and immunohistochemistry (frozen sections) and in vivo and in vitro function blocking (1,2,3,4,5,6).

PRESENTATION:

200 µg purified Ig buffered in PBS, pH 7.4 and 0.09% NaN_3

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.

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

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

SPECIFICATIONS:

Clone: 1A29

Hybridoma Production:

Immunization: Immunogen: Ax cells (rat HEV derived cell line)
Donor: BALB/c spleen

Fusion Partner: myeloma PAI

Specificity: Rat CD54 (ICAM-1)

Ig Class: Mouse IgG_1

Antibody Concentration: 1.0 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 $1x10^6$ cells, representing 1 test).
4. To each tube, add 1.0 µg***** of **CL054AP**.
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 **CLCC30201** (FITC Goat anti-mouse 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 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).

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.**

Continued Overleaf……..

REFERENCES:

1) T. Tamatani & M. Miyasaka; Identification of monoclonal antibodies reactive with the rat homolog of ICAM-1, and evidence for a differential involvement of ICAM-1 in the adherence of resting versus activated lymphocytes to high endothelial cells. Int. Immunol., 2, 165- (1990).
2) T. Tamatani, M. Kotani, T. Tanaka & M. Miyasaka; 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 (1991).
3) S. Whitcup, L. Raymond DeBarge, H. Rosen, *et al*. Monoclonal antibody against CD11b/CD18 inhibits endotoxin-induced uveitis. Investigative Opthalmology and Visual Science, vol 34, No. 3, 673-681 (1993).
4) Yamazaki, T., Y. Seko, T. Tamatani, *et al*. Expression of inter-cellular adhesion molecule-1 rat heart with ischemia/reperfusion and limitation of infarct size by treatment with antibodies against cell adhesion molecules, Amer. J. Path. 143: 410 -413. (1993)
5) 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)
6) 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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