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- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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- 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.

PE Anti-Rat Endothelium Monoclonal Antibody

CL043PE
CL043PE-4
LOT: 4351

DESCRIPTION:

Cedarlane's anti-rat endothelium monoclonal antibody recognizes a surface protein of MW 90 kDa and generally reacts with all vascular endothelium in the rat except that of brain capillaries (1). This is the reciprocal tissue pattern to that of the transferrin receptor. It has been shown that the expression of CL043PE is on the luminal surface of blood vessels. CL043PE labels all peritoneal macrophages, a sub-population of alveolar macrophages (65%) and rare interstitial cells in the brain and heart (1). In addition, Cedarlane's anti-rat endothelium mAb labels circulating erythrocytes, 22% of peripheral blood mononuclear cells and 17% of nucleated cells in bone marrow (1).

CL043PE does not label granulocytes, dendritic cells, lymphocytes, or lymphocyte blasts, thymocytes, lymph node cells, mast cells and platelets. CL043PE has been invaluable in the demonstration of molecular heterogeneity of vascular endothelium.

PRESENTATION:

50 µg (CL043PE) or 200 µg (CL043PE-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.

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

CEDARLANE®
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SPECIFICATIONS:

Clone: MRC OX-43

Hybridoma Production:

Immunization: Immunogen: Rat Peritoneal Macrophages
Immunocyte Donor: BALB/c Spleen

Fusion Partner: NSO/U

Specificity: Rat Endothelium

Isotype: Mouse IgG_1

Presentation: 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 4-5mg/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®-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 50µl of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test).
4. To each tube, add 0.05 µg***** of **CL043PE or CL043PE-4**.
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 flurochromes 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:

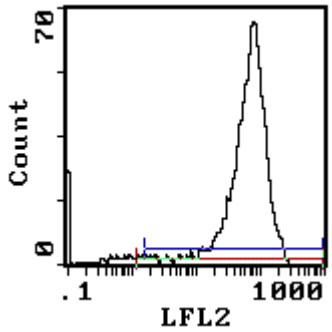
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Fisher
Cell Concentration : $1x10^6$ cells per tests
Antibody Concentration Used: 0.05 µg/10^6 cells
Isotypic Control: PE Mouse IgG_1,κ

Cell Source	Percentage of cells stained above control:
Thymus	13.8%
Peritoneal Macrophages	93.0%



Cell Source: Peritoneal Macrophages
Percentage of cells stained above control: 93.0%

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.**

Strain Distribution by Flow Cytometry Analysis:

Procedure: see page 2
Antibody Concentration Used: 0.05 μg/10^6 cells
Strains Tested: Wistar, Brown Norway, Buffalo, Fischer 344
Positive: Buffalo, Brown Norway, Fischer 344, Wistar
Negative: none

REFERENCES:

1) Robinson, A.P., White, T.M. and D.W. Mason. (1985) Immunology. 57, 231-237. MRC OX-43: a monoclonal antibody which reacts with all vascular endothelium in the rat except that of brain capillaries.