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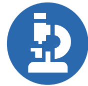
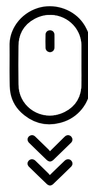
 Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

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Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Purified Anti-Rat CD43
Monoclonal Antibody
NO AZIDE

CL002NA

DESCRIPTION:

Cedarlane's anti-rat CD43 monoclonal antibody recognizes a monomorphic determinant expressed on rat thymocytes, polymorphonuclear cells, plasma cells and stem cells, but not B lymphocytes or pre-B cells (1,3). The antigen is a heavily glycosylated glycoprotein of apparent molecular weight 95,000 and has a high content of O-linked carbohydrate structures (3). This major glycoprotein of thymocytes and T lymphocytes is referred to by several names including leukocyte sialoglycoprotein and leukosialin. The carbohydrate structures of leukosialin account for approximately 60% of its weight (2). On thymocytes, this glycoprotein is the main target for binding of peanut lectin (4). This antibody is useful for labelling T but not B lymphocytes and in studies on stem cells since pre-B cells are not labelled while the multipotential stem cell is. It may also be used in analysis of NK cells (5) and in molecular studies in the sialoglycoprotein which it recognizes. This clone has been reported to work in immunohistochemistry (frozen sections).

PRESENTATION:

1.0 mg (CL002NA) purified Ig buffered in PBS, **No Preservative.**

STORAGE/STABILITY:

Store at 4°C. **Handle under aseptic conditions**. 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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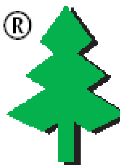

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SPECIFICATIONS:

Clone: W3/13 HLK

Hybridoma Production:

Immunization: Immunogen: Rat thymocyte membrane
Immunocyte Donor: BALB/C spleen

Fusion Partner: NS1/1

Specificity: Rat CD43

Isotype: Mouse IgG_1

Presentation: Purified Ig buffered in PBS, No Preservative. (Purified from ascitic fluid via Protein G Chromatography)

Antibody Concentration: 1.0 mg/ml

FLOW CYTOMETRY ANALYSIS:

1. Prepare 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 cells to $1x10^6$ cells in approximately 50 µl Media A in a microcentrifuge tube. (i.e. 50 µl of cells resuspended to $2x10^7$ cells/ml.)
   (The Contents Of 1 Tube Represent 1 Test.)
4. To each tube add 1.0 – 0.5µg* of **CL002NA** 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.
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 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 phosphate buffered saline. (This stains dead cells by intercalating DNA.)

MEDIA:

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

Rat Strain: Fisher
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration: 0.5µg / 10^6 cells
Isotypic Control: Purified Mouse IgG_1 (CLCMG100)

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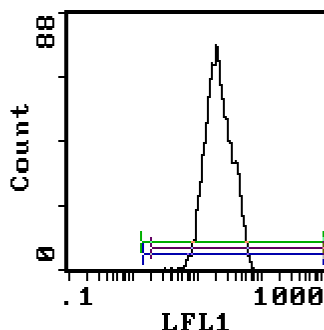
CELL SOURCE	PERCENT STAINING
Thymus	100%
Spleen	33.3%
Lymph Node	58.9%



Cell Source: Thymus
Percentage of Cells Stained Above Control: 100%

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:

Procedure: As above
Antibody Concentration: 1:200
Strains Tested: Lewis, Wistar, ACI, Brown Norway, Fischer 344, Buffalo

Positive: Lewis, Wistar, ACI, BN, Fischer 344, Buffalo
Negative: none

REFERENCES:

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2. Dyer, M.J.S. and S.V. Hunt. (1981) J.Exp.Med. 154, 1164-1177. Characterization by surface W3/13 antigen and radiosensitivity.

3. Brown, W.R.A., Barclay, A.N., Sunderland, C.A. and A.F. Williams. (1981) Nature. 289, 456-460. Identification of glycophorin-like molecule at the cell surface of rat thymocytes.

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6. Killeen, N., Barclay, A.N., Willis, A.C. and A.F. Williams. (1987) The EMBO J., vol.6, #13, 4029-4034. The sequence of rat leukosialin (W3/13 antigen) reveals a molecule with O-linked glycosylation of one third of its extracellular amino acids.

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MW 07/23/08