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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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- Trockeneiszuschlag
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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 RT1.D Monoclonal Antibody

CL011AP
CL011AP-2
LOT: 1121

DESCRIPTION:

Cedarlane's anti-rat RT1.D monoclonal antibody recognizes a monomorphic determinant on the α chain of the rat Ia antigen and appears to be the rat homologue of mouse Ia-E. It recognizes the rat Ia product present on B, but not T cells from lymph node or thoracic duct lymph. It does not bind to thymocytes or erythrocytes. The antibody does not cross-react with rat Ia-A or mouse Ia-E antigen, but rabbit antibody raised against the antibody affinity column-purified MRC OX-17 antigen cross-reacted on tissues of mice expressing Ia-E mouse antigen but not on those mouse strains that were Ia-E antigen negative (2).

PRESENTATION:

250 µg (CL011AP) or 500 µg (CL011AP-2) purified Ig buffered in PBS + 0.02% NaN_3

STORAGE/STABILITY:

Stable at 4°C. For long term storage, aliquot and freeze unused portions at -20°C in volumes appropriate for single usage. Avoid repeated freeze/thaw cycles.

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

CEDARLANE®
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SPECIFICATIONS:

Clone: MRC OX-17

Hybridoma Production:

Immunization: Immunogen: Rat spleen membrane glycoproteins depleted of Ia-A antigens.

Immunocyte Donor: BALB/c spleen

Fusion Partner: X63 Ag8.653

Specificity: Rat RT1.D (Rat Ia-E)

Isotype: Mouse IgG_1

Presentation: Purified Ig buffered in PBS with the addition of 0.02% NaN_3. (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 50 µl of a 1:250 - 1:500 dilution of **CL011AP** or **CL011AP-2**.
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 1:700 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).

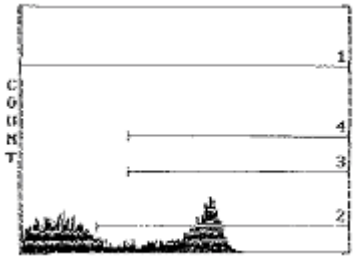
MEDIA:

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: Lewis Rat
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration: 1:400
Isotypic Control: Mouse IgG_1, κ

CELL SOURCE	PERCENT STAINING
Thymus	12%
Spleen	34%
Lymph Node	25%



LFL1
Cell Source: Splenocytes
Percentage of Cells Stained Above Control: 34%

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: 1:100
Strains Tested: Wistar, Buffalo, Brown Norway, Fischer 344

Positive: Wistar, Buffalo, Brown Norway, ACI, Fischer 344
Negative: none

REFERENCES:

1. Kearney, J.F., Radbruch, A., Leisegang, B. and K. Rajewsky. (1979) A New mouse myeloma cell line that has lost Immunoglobulin expression but permits the construction of antibody-secreting hybrid cell lines. J. Immunol. 123, 1548-1550.

2. Fukumoto, T., McMaster, W.R. and A.F. Williams. (1982) Mouse monoclonal antibodies against rat major histocompatibility antigens. Two Ia antigens and expression of Ia and Class I antigens in rat thymus. Eur. J. Immunol. 12, 237-243.

3. Barclay,A.N. (1981) Different reticular elements in rat lymphoid tissue identified by localization of Ia, thy-1 and MRC OX-2 antigens. Immunology. 42, 593-600.

FOR RESEARCH USE ONLY

(Not to be administered to humans or animals nor used for any drug purpose).

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