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TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Biotin Anti-Human HLA-DR Monoclonal Antibody

**CLHLA-03B
CLHLA-03B-3
LOT: 0341**

DESCRIPTION:

Cedarlane's Biotin anti-human HLA-DR monoclonal antibody recognizes the HLA-DR (MHC class II) antigen.

Applications include: flow cytometry, cryostat sections, Paraffin-embedded sections

PRESENTATION:

100µg (CLHLA-03B) or 300µg (CLHLA-03B-3) purified Ig buffered in PBS with 0.02% NaN₃ 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 repeated freeze/thaw cycles as this may denature the antibody.

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

CEDARLANE®
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or visit our website for a list of our international distributors including contact information

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

SPECIFICATIONS:

Clone: YD1/63.4.10

Hybridoma Production:

Immunization: Immunogen: DAUDI cells
Donor: immunized DA rat spleen cells

Fusion Partner: Y3 Ag1.2.3 rat myeloma

Specificity: HLA-DR antigen

Ig Class: Rat IgG_{2a}

Format: Biotin conjugated Ig buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. (Purified from ascites 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[®]-H (CL5010) cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2×10^7 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test).
4. To each tube, add 50 μ l of a 0.5-0.2 μ g dilution of **CLHLA-03B** or **CLHLA-03B-3** 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 μ l of secondary antibody **CLCSA1001** (Streptavidin-FITC) at a 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 μ l ice cold media B.
12. Transfer to suitable tubes for flow cytometric analysis containing 15 μ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

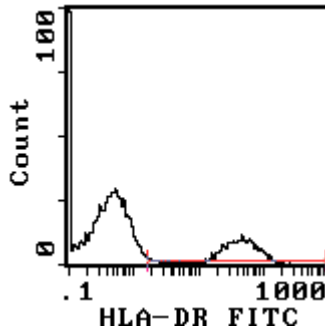
Media:

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

Results:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration : 1×10^6 cells per test
Antibody Concentration Used: 0.5 μ g/ 10^6 cells
Isotypic Control: Biotin Rat IgG_{2a} (CLCR2a15)



Cell Source: Peripheral Blood Lymphocytes
Percentage of cells stained above control: 26.7%

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

- 1. Janossy, G., Tidman, N., Crawford, D., Papageorgiou, E. S., Prentice, H. G., Francis, G., Bradstock, K. F., McConnell, I., Secher, D., and Milstein, C. (1980). Protides of Biol. Fluids 28: 523-528

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