MONOCLONAL ANTIBODY HLA-DR

Cat. No.	Form	Quantity	Presentation
1638	FITC	100 tests	Liquid 2ml
1639	Phycoerythrin	100 tests	Liquid 2 ml
1849	PE-Cy5	100 tests	Liquid 2 ml

Clone Immu-357

Isotype IgG1 κ (mouse)

Immunogen EBV transformed cell line

Hybridoma X63 Ag8 6 5 3 x Balb/c spleen cells

Specificity The molecular weight of the recognized antigen is 29-33 kDa

HLA Class II are involved in the cooperative cellular interactions between lymphocytes and macrophages, T- and B-lymphocytes, and in cytotoxicity Similar to the HLA Class I antigens, Class II antigens are involved in allogenic restriction The HLA Class II antigens are strongly expressed on B-lymphocytes and more weakly on non-activated monocytes in human peripheral blood The resting T-cells do not express HLA Class II antigen except when they are activated A substantial number of HLA Class II positive T-lymphocytes can be found in diseases with a strong stimulation of the immune system

This antibody is negative on granulocytes and platelets

Applications Enumeration of cell subsets of the immune system expressing the Class II antigen

Studies of the role of HLA Class II antigen in cellular interaction and antigenic stimulation.

Studies of cell subsets expressing the Class II antigen in ALL, CLL and non-Hodgkin B-cell lymphoma.

Buffer 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0 1% sodium azide

Storage Conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C

Recommended Procedures Fluorescent microscopy or flow cytometry.
20 µl/5x10^5 cells/test or 100 µl whole blood

June 20, 1995

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Limitation PE-Cy5 conjugates are recommended for use only on flow cytometers equiped with a 675 nm band pass filter in front of the third fluorescence detector

References

1) Sonderstrup Hansen, G , Rubin, B , Sorensen, S F & Svejgaard, A , "Importance of HLA-D antigens for the cooperation between human monocytes and T lymphocytes43,1978, Eur J Immunol , **8**, 520-525

2) Thorsby E , "Structure and function of HLA Molecules" 1987 Transplantation Proceedings, **19**, 29-35

3) Bodmer, J.G. et al, "Nomenclature for factors of the HLA system, 1994", 1994, Tissue Antigens, **44**, 1-18