

MONOCLONAL ANTIBODY HLA-DR

Cat. No.	Form	Quantity	Presentation
0108	Purified	0.2 mg	Freeze-dried
0261	Biotin	0.2 mg	Freeze-dried
0462	Purified	100 tests	Liquid 2 ml
0463	FITC	100 tests	Liquid 2 ml
0464	Phycoerythrin	100 tests	Liquid 2 ml

Clone B8.12.2

Isotype IgG2b κ (mouse)

Immunogen Human HLA A6 cytotoxic T-cell clone

Hybridoma Myeloma NS1/Ag 1.4 x Balb/c spleen cells

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

The monoclonal antibody B8.12.2 reacts with a monomorphic Class II epitope. HLADR 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 antigen, Class II antigens are involved in allogenic restriction. Macrophages present foreign antigen to lymphocytes by mediation of the HLA antigen. 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 have shown the identification and characterization of cell subsets expressing the Class II antigen in ALL, CLL and non-Hodgkin B-cell lymphoma.

Study of the role of HLA Class II antigens in cellular interactions and antigenic stimulation.

Coexpression of HLADR and CD8 allows activation of cytotoxic cells in viral infections.

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FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



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Buffer

Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.

Liquid forms: 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

Reconstitution and Storage

The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.

The purified liquid form should be stored at 2 - 8°C.

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

Recommended Procedures

Fluorescent microscopy or flow cytometry:

Liquid form: 20 µl/5x10⁵ cells/test or 100 µl whole blood.

Freeze-dried form: 2 µg/5x10⁵ cells/test.

Immunohistochemistry:

Suggested form: freeze-dried.

Working dilution: 1:25 to 1:50.

This antibody is only suitable on frozen sections or cell smears.

References

- 1) Sonderstrup Hansen, G., Rubin, B., Sorensen, S.F. & Svejgaard, 1978, Eur. J. Immunol., 520-525.
- 2) Rebai, N., Malissen, B., Pierres, M., Accola, R.S., Corte, G. & Mawas, C., 1983, European Journal of Immunology, 106-111.
- 3) Bodmer J.G. & Bodmer W.F., 1984, British Medical Bulletin, 40, 267-275.
- 4) Thorsby, E., 1987, Transplantation Proceedings, 19, 29-35.