

PRODUCT INFORMATION SUMMARY

Anti-HLA-DR

Purified Antibody	Product Number	M320020	(0.1 mg)
Fluorescein Conjugate	Product Number	M320030	100 tests
Biotin Conjugate	Product Number	M320060	100 tests
Phycoerythrin Conjugate	Product Number	M320070	100 tests

ANTIGEN DISTRIBUTION AND SPECIFICITY:

The HLA-DR antigen is present on normal B cells, monocytes, macrophages, and activated T cells (1). It is also present on the majority of malignant cells of non-T cell acute lymphoblastic leukemia (ALL), acute myeloblastic leukemia (AML), B cell leukemias, non-Hodgkin lymphomas, and many cases of T cell lymphoma. This monoclonal antibody is specific for a human HLA-D region associated, Ia-like bimolecular complex having a molecular weight of 29/34 kilodaltons (1).

CLONE:

Derived from hybridization of murine myeloma (NS-1) cells with spleen cells from BALB/c mice immunized with cells of the JOSH human lymphoblastoid pre-B cell line. Affinity purified from murine ascites fluid.

Immunoglobulin chain composition: IgG1, kappa light chains.

CONJUGATION:

Fluorescein isothiocyanate; R-phycoerythrin; Biotin ester.

HANDLING AND STORAGE:

All reagents provided as 1.0 ml and conjugates should be protected from prolonged exposure to light. Reagents will be in a medium containing 0.01M phosphate-buffered saline, pH 7.4, 0.2% gelatin and 0.1% sodium azide. These preparations should be diluted in a protein-containing or other stabilizing medium to a concentration suitable for use in specific protocols. All reagents in a liquid state should be stored at 2-8° C when not in use.

PRODUCT USE:

For flow cytometry **use 10 uL per test.** For immunohistochemistry, purified Anti-HLA-DR should be diluted 1:40, using enough reagent to cover the tissue section or cytoprep.

RESEARCH APPLICATIONS:

Enumeration of peripheral blood lymphocytes and monocytes bearing HLA-DR antigen by flow cytometry.

Studies to characterize hematopoietic malignancies.

Immunofluorescence or immunoenzymatic staining.

CAUTION:

Reagents contain sodium azide, a preservative which may react with lead joints in copper drain lines to form explosive compounds. Even though reagents contain minute quantities of sodium azide, drains should be thoroughly flushed with water when reagents are discarded.

WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

SELECTED REFERENCES:

1. Winchester, R. J. and Kunkel, H. G. 1980. The human Ia system. Adv. Immunol. 28:22.
2. Knowles, D. M. 1984. Lymphoid cell markers. Amer. J. Surg. Path. 9:85.

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* R-phycoerythrin is registered under U.S. patent numbers 4,520,110 and 4,859,582.

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