

Monoclonal Antibody to HLA Class II DR - FITC

Alternate names:	HLA class II histocompatibility antigen DR, HLA-DR, MHC class II antigen DR
Catalog No.:	AM05204FC-N
Quantity:	100 Tests
Concentration:	Lot specific
Background:	Identification of human B cell and T cell subsets associated with approximately 10% of peripheral blood lymphocytes 28-34,000 M.W. surface antigen, also low density on monocytes and macrophages.
Host / Isotype:	Mouse / IgG2a
Clone:	423L
Format:	State: Liquid purified IgG fraction Buffer System: PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative. Label: FITC
Applications:	Flow Cytometry. Monitoring of B cells in peripheral blood. Analysis of B subsets. Study of B cell activation. Study of B cell neoplasms. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recats with human B and T subset Lymphocyte. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. Do Not Freeze! Shelf life: One year from despatch.
General Readings:	1. IL-4 and granulocyte-macrophage colony-stimulating factor selectively increase HLA-DR and HLA-DP antigens but not HLA-DQ antigens on human monocytes. Gerrard T.L., Dyer D.R., Mostowski H.S., J. Immunol. 1990 June, 1;144(12): 4670-4. 2. Structural requirements for pairing of alpha and beta chains in HLA-DR and HLA-DP molecules. Karp D.R., Teletski C.L., Jaraquemada D., Maloy W.L., Coligan J.E., Long E.O., J. Exp. Med. 1990 March ;171(3):615-28. 3. Trans-activation of HLA-DR gene by hepatitis B virus X gene product. Hu K.Q., Vierling J.M., Siddiqui A., Proc. Natl. Acad. Sci. USA 1990 SEPT.; 87(18):7140-4. 4. Purified primitive human hematopoietic progenitor cells with long-term in vitro repopulating capacity adhere selectively to irradiated bone marrow stroma. Verfaillie C.,

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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Blakolmer K., McGlave P., J. Exp. Med. 1990 Aug.: 172(2):509-2.

5. Defective clonogenic potential of CD8+ T lymphocytes in patients with AIDS. Expansion in vivo of a nonclonogenic CD3+ CD8+ DR+ CD25- T cell population. Pantaleo G., Keonig S., Baseler M., Lane H.C., Fauci A.S., J. Immunol. 1990 Mar ; 144(5):1696-704.

6. Increased circulating HLA-DR+ CD4+ T cells in systemic lupus erythematosus: alterations associated with prednisolone therapy. Raziuddin S., Nur M.A., al-Wabel A.A., Scand. J. Immunol. 1990 Feb.:31(2):139-45.

Protocols:**PBMC:**

Add 10 ul of MAB/10e6 PBMC in 100 ul PBS.

Mix gently and incubate for 15 minutes at 2-8°C.

Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD:

Add 10 ul of MAB/100 ul of whole blood.

Mix gently and incubate for 15 minutes at room temperature (20°C).

Lyse the whole blood.

Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

See instrument manufacturers instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

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