

Product datasheet for **SM2201F**

HLA Class II DR Rat Monoclonal Antibody [Clone ID: YD1/63.4.10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	YD1/63.4.10
Applications:	FC
Recommended Dilution:	Flow cytometry. Immunohistochemistry on cryostat and Paraffin-embedded sections.
Reactivity:	Human
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	DAUDI cells Donor: immunized DA rat spleen cells Fusion Partner: Y3 Ag1.2.3 rat myeloma
Specificity:	Anti-human HLA-DR monoclonal antibody recognizes the HLA-DR (MHC class II) antigen.
Formulation:	PBS containing 0.02% sodium azide (NaN ₃) as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: FITC State: Liquid purified Ig fraction Label: Fluorescein isothiocyanate isomer 1
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Synonyms:	HLA-DR, HLA class II histocompatibility antigen DR, MHC class II antigen DR



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Note: Protocol: **FLOW CYTOMETRY ANALYSIS:**

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-H 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 0.2-0.1 μ g dilution of this antibody 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. Resuspend the cell pellet in 50 μ l ice cold media B.
9. 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: 0.1 μ g/ 10^6 cells
Isotypic Control: FITC Rat IgG2a

Product images:

