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Product datasheet for SM2201R

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 Sections.** **Immunohistochemistry on 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:	This HLA-DR monoclonal antibody recognizes the HLA-DR (MHC class II) antigen.
Formulation:	PBS Label: PE State: Liquid purified Ig fraction from bioreactor supernatant Stabilizer: EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!** This products is photosensitive and should be protected from light.
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 $2x10^7$ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10^6 cells, representing 1 test).
4. To each tube, add 1.0–0.5 µg* 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.
(It is recommended that the tubes be protected from light, since most fluorochromes are light sensitive.)
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 µl ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl 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 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:

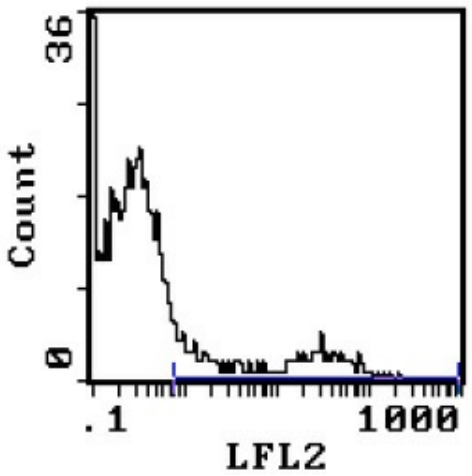
Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1x10^6 cells per test.

Antibody Concentration Used: 0.5 µg/10^6 cells.

Isotypic Control: PE Rat IgG2a.

Product images:



Cell Source: Peripheral Blood Lymphocytes