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Product datasheet for CL067B

MHC Class II I-Abd Mouse Monoclonal Antibody [Clone ID: 28-16-8S]

Product data:

Product Type:	Primary Antibodies
Clone Name:	28-16-8S
Applications:	FC
Recommended Dilution:	Flow cytometry.
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Specificity:	This monoclonal antibody reacts with the I-Ab encoded MHC class II antigen expressed on mouse strains of the H-2b haplotype. It also reacts with the I-Ad encoded MHC class II antigen expressed on mouse strains of the H-2d haplotype. Class II antigens are most highly expressed on antigenpresenting cells including B cells, macrophages, dendritic cells and certain epithelial cells.
Formulation:	PBS and contains 0.02% sodium azide (NaN3) as a preservative. Label: Biotin State: Liquid purified IgM
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Biotin
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.

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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®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test).
4. To each tube, add 0.2µg – 0.5mg* of this Ab per 10e6 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. Add 100 µl of secondary antibody (Streptavidin-FITC) at a 1/500 dilution.
9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C.
11. Resuspend the cell pellet in 50 µl ice cold media B.
12. 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:

Mouse Strain: BALB/c
Cell Concentration: 1x10e6 cells per test
Antibody Concentration Used: 0.5 µg/10e6 cells
Isotypic Control: Biotin Mouse IgM

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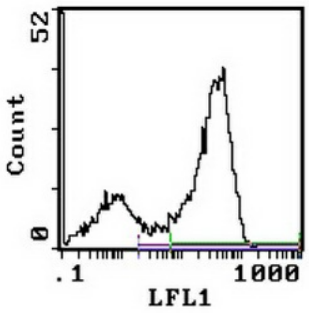
Product images:



Cell Source: Spleen
Percentage of cells stained above control: 64.8%

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