

Product datasheet for **CL053B**

LOC102641613 Mouse Monoclonal Antibody [Clone ID: 34-5-8S]

Product data:

Product Type:	Primary Antibodies
Clone Name:	34-5-8S
Applications:	FC
Recommended Dilution:	Flow cytometry.
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	B6xDBA/2 spleen cells Donor: C3H/HeJ spleen Fusion Partner: SP2/0.Ag14
Specificity:	This mAb is specific for cells expressing the H-2D antigen coded for by the d haplotype. The reaction pattern of this antibody with a panel of inbred and recombinant haplotypes demonstrates that the antibody detects a private determinant (H-2.4) of the H-2Dd antigen. This antibody can be used to quantitate cells bearing H-2Dd (H-2.4) antigen from the appropriate strains of mice.
Formulation:	PBS , 0.02% NaN ₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: Biotin State: Liquid purified Ig
Concentration:	lot specific
Purification:	Protein G 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.
Gene Name:	H-2 class I histocompatibility antigen, D-D alpha chain



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Database Link: [Entrez Gene 102641613 Mouse P01900](#)

Synonyms: H2-D1, H-2D(D)

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 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 0.5-1.0 μ g* of this Ab 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. Add 100 μ l 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 μ l ice cold media B.
12. 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:
Mouse Strain: BALB/c

Cell Concentration : 1×10^6 cells per tests

Antibody Concentration Used: 1.0 μ g/ 10^6 cells

Isotypic Control: Biotin Mouse IgG2a

Cell Source Percentage of cells stained above control:

Thymus: 40.7 %

Spleen: 98.3%

Strain Distribution by Flow Cytometry Analysis:
Cell Concentration : 1×10^6 cells per tests

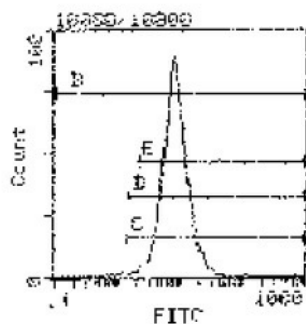
Antibody Concentration Used: 1.0 μ g/ 10^6 cells

Strains Tested: BALB/c, C57BL/6, CBA/J, C3H/He

Positive: BALB/c

Negative: C57BL/6, CBA/J, C3H/He

Product images:



Cell Source: Spleen

Percentage of cells stained above control: 98.3 %