

Product datasheet for **CL053F**

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:	Recipient: C3H/HeJ Immunocyte Donor: B6 x DBA/2 spleen cells Fusion Partner: SP2/0.Ag14
Specificity:	This anti-mouse H-2Dd monoclonal antibody 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 the 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: FITC State: Liquid purified Ig
Concentration:	lot specific
Purification:	Protein G Chromatography
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. This product is photosensitive and should be protected from light.
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 cell suspension in Media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation media.
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 mg 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. (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
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 phosphate buffered saline. (This stains dead cells by intercalating DNA.)

MEDIA:

- A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 μ l of 2 M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% bovine serum albumin + sodium azide (100 μ l of 2 M sodium azide in 100 mls).

Results - Tissue Distribution by Flow Cytometry Analysis:

Donor: BALB/c

Cell Concentration: 1×10^6 cells per test

Antibody Concentration: 1 μ g/ 10^6 cells

Isotypic Control: FITC Mouse IgG2a, k

STRAIN DISTRIBUTION:

Procedure: As above

Antibody Concentration: 1 μ g/ 10^6 cells

Strains Tested: see Figure 2

Product images:

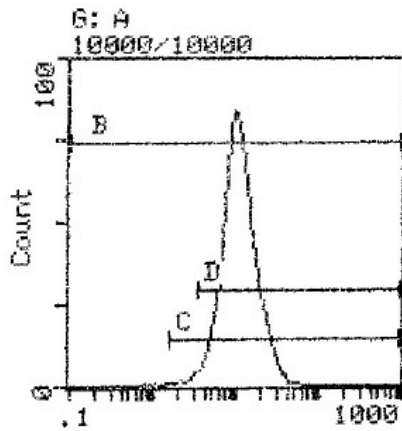


FIGURE1: LFL1 - Cell Source: Spleen - Percentage of Cells Stained Above Control: 97.9%

Strain	Haplotype	+/-
BALB/c	H-2 ^d	+
C3H/He	H-2 ^k	-
CBA/J	H-2 ^k	-
C57BL/6	H-2 ^b	-

FIGURE2