

Product datasheet for **CL058F**

MHC Class I H-2 Kb / H-2 Db Mouse Monoclonal Antibody [Clone ID: 5041.16.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5041.16.1
Applications:	FC
Recommended Dilution:	Flow cytometry.
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody is specific for cells expressing the H-2K antigen coded for by the b haplotype and for cells expressing the H-2D antigen coded for by the b haplotype.
Formulation:	PBS with the addition of 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 Ig fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	FITC
Storage:	Store at 2-8 °C for up to one month. For long term storage, aliquot and freeze unused portion at -20 °C in volumes appropriate for single usage. Avoid freeze/thaw cycles. Avoid prolonged exposure to light.
Stability:	Shelf life: one year from despatch.
Synonyms:	HLA Class I



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- Note:** Protocol: FLOW CYTOMETRY ANALYSIS:
1. Prepare cell suspension in Media A. For cell preparations, deplete the red blood cell population.
 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 0.1 mg of 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 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).

FLOW CYTOMETRIC ANALYSIS:

Donor: C57BL/6
Cell Concentration: 1×10^6 cells
Antibody Concentration: 0.1 μ g/ 10^6 cells
Isotypic Control: FITC Mouse IgG2a, k

STRAIN DISTRIBUTION:

Procedure: As above
Antibody Concentration: 0.1 μ g/ 10^6 cells

Strains Tested:

Strain Haplotype +/-
BALB/c H-2d -
C3H/He H-2k -
CBA/J H-2k -
C57BL/6 H-2b +
B6Lyt 2.1 3.1 H-2b +