

## Product datasheet for **CL058R**

### 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 (see protocol below).
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, 0.02% NaN <sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: PE State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	PE
Storage:	Store at 2 - 8 °C. DO NOT FREEZE. This product is photosensitive and should be protected from 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  $2 \times 10^7$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1 \times 10^6$  cells, representing 1 test).
  4. To each tube add 0.2- 0.5 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  $\mu$ l ice cold Media B.
  9. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ 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  $\mu$ l of 2 M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% bovine serum albumin + sodium azide (100  $\mu$ l of 2 M sodium azide in 100 mls).

**FLOW CYTOMETRIC ANALYSIS:**

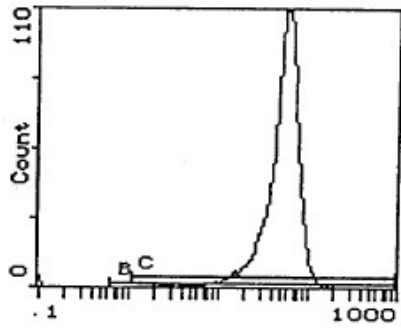
Donor: C57BL/6  
Cell Concentration:  $1 \times 10^6$  cells  
Antibody Concentration: 0.2  $\mu$ g/ $10^6$  cells  
Isotypic Control: PE Mouse IgG2a, k

(see picture below)

**STRAIN DISTRIBUTION:**

Procedure: As above  
Antibody Concentration: 0.2  $\mu$ 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 +

Product images:



LFL2

Cell Source: Spleen

Percentage of Cells Stained Above Control: 99.3%