

## Monoclonal Antibody to MHC Class I H-2 Kb / H-2 Db - PE

<b>Catalog No.:</b>	CL058R
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	0.1 mg/ml
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	5041.16.1
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Protein G chromatography <b>Buffer System:</b> 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. <b>Label:</b> PE
<b>Applications:</b>	Flow cytometry (see protocol below). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	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. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store at 2 - 8 °C. DO NOT FREEZE. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>Protocols:</b>	<b><u>FLOW CYTOMETRY ANALYSIS:</u></b> 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 2x10 <sup>7</sup> cells/ml in media A. Add 50µl of this suspension to each tube (each tube will then contain 1 x 10 <sup>6</sup> cells, representing 1 test). 4. To each tube add 0.2- 0.5 mg of antibody per 10 <sup>6</sup> 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 µl ice cold Media B. 9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in phosphate buffered saline. (This stains dead cells by intercalating DNA.)  <b>MEDIA:</b> A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2 M sodium azide in 100 mls).

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Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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B. Phosphate buffered saline (pH 7.2) + 0.5% bovine serum albumin + sodium azide (100 µl of 2 M sodium azide in 100 mls).

**FLOW CYTOMETRIC ANALYSIS:**

Donor: C57BL/6

Cell Concentration: 1x10<sup>6</sup> cells

Antibody Concentration: 0.2 µg/10<sup>6</sup> cells

Isotypic Control: PE Mouse IgG2a, k

(see picture below)

**STRAIN DISTRIBUTION:**

Procedure: As above

Antibody Concentration: 0.2µg/10<sup>6</sup> cells

Strains Tested:

Strain Haplotype +/-

BALB/c H-2d -

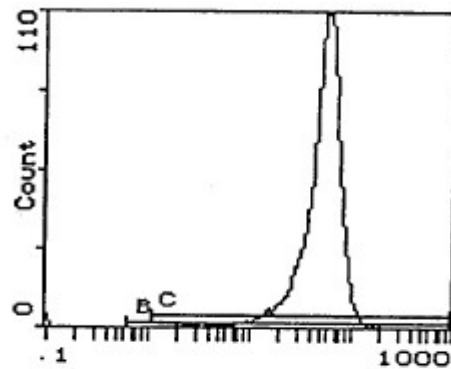
C3H/He H-2k -

CBA/J H-2k -

C57BL/6 H-2b +

B6Lyt 2.1 3.1 H-2b +

**Pictures:**



**LFL2**

Cell Source: Spleen

Percentage of Cells Stained Above Control: 99.3%

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