

Mouse CD8+ Cell Separation Kit

1. Product Information

Product Name	Model	Components
Mouse CD8+ Cell Separation Kit	K1303-10	1 mL anti-mouse CD8 biotin antibody 1 mL Streptavidin MicroBeads

2. Product description

Mouse CD8+ Cell Separation Kit is used for quick and easy separation of CD8+ cells from single-cell suspensions of mouse spleen, thymus, lymph nodes or peripheral blood mononuclear cells (PBMC).

Principle: The labeled CD8+ cells are obtained by adding appropriate amount of antibodies and MicroBeads into the single-cell suspension and by magnetic adsorption on the columns. The separated cells can be directly used for downstream experiments such as cell culture and flow cytometry etc.

3. Capacity

For 10^9 total cells, up to 100 tests (10^7 cells/test).

4. Transportation and storage

Shipping at 2~8 °C;

Store protected from light at 2~8 °C. Do not freeze. valid for 12 months.

5. Requirements for reagents and instruments

Buffer: phosphate buffered saline (PBS) pH 7.2, containing 0.5% bovine serum albumin(BSA) and 2 mM EDTA

LarSep Columns (RWD, Cat No. HCSC-25)

30 μm cell filter

Note:

- PBS containing Ca^{2+} or Mg^{2+} is not recommended.
- To prevent air bubbles from blocking the column, please avoid using buffers that contain many bubbles.

6. Method for use

6.1 Sample preparation

- (1) Prepare single-cell suspension with the Single cell suspension dissociator or manually when processing lymphoid organs, non-lymphoid tissues or peripheral blood.
- (2) Rinse the 30 μm cell filter with buffers, and then filter the cell suspension with the filter. After preparation, store the cell suspension at 2~8 °C.
- (3) (Optional) Dead cells or erythrocytes may affect the separation, which can be depleted by Dead Cell Removal Kit and Red Blood Cell Lysis Buffer.

6.2 Magnetic labeling

Note:

- The reagents given in the following steps can process 10^7 cells. If there are less than 10^7 cells, add the reagents according to 10^7 cells; if there are more than 10^7 cells, increase the reagents accordingly in proportion.
- Operate as quickly as possible, keep cells cold, and use pre-cooled solutions to reduce nonspecific cell labeling.

- (1) Count cell number and adjust the cell concentration to 1×10^8 cells /mL.
- (2) Take 100μL cell suspension (containing 10^7 cells).
- (3) Add 10μL antibody.

- (4) Mix well and incubate at 2-8°C for 10 min.
- (5) Wash cells with 1~2mL buffer, centrifuge at 500×g for 5 min and discard the supernatant.
- (6) Resuspend cells with 100μL buffer.
- (7) Add 10μL Streptavidin MicroBeads.
- (8) Mix well and incubate at 2~8 °C for 15 min.
- (9) Wash cells with 1~2mL buffer, centrifuge at 500×g for 5 min and discard the supernatant.
- (10) Resuspend cells with 500μL-1mL buffer if there are no more than 1.25×10^8 cells. Increase buffer if there are more cells.
- (11) Perform magnetic separation. (Filter sample before separation if cell concentration is too high or there are too much cell clumps and aggregates)

6.3 Magnetic separation

Note: Before adding buffer in the following steps, make sure that all the buffer added to the column in the previous step drains away (i.e. no continuous droplets are dripping from the lower port of the column).

- (1) Put the column in a suitable magnetic field.
- (2) Wash the column with 2mL buffer.
- (3) Add the cell suspension to the column and collect the effluent (containing unlabeled cells).
- (4) Wash the column with 2-3mL buffer and collect the effluent, and mix it with the effluent collected in step (3). Repeat washing for 2-3 times.
- (5) When buffer added in the previous step drains away, remove the column from the magnetic field and replace the collection tube with a new one.
- (6) Add 1~2 mL buffer into the column and then flush out the buffer with the plunger supplied with the column to obtain the magnetic labeled cells.
- (7) (Optional) To improve purity of the magnetic labeled cells, repeat steps (3) to (6) to enrich the magnetic labeled cells.

7. Precautions

- (1) This kit is valid for 12 months, and RWD does not guarantee the validity of expired products
- (2) All operations should be performed under sterilized conditions.
- (3) Cells should be incubated at 2~8 °C. High temperatures or extended incubation duration may result in non-specific labeling.

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