

Product datasheet for SM260BX

Cd8b Mouse Monoclonal Antibody [Clone ID: 3.4.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3.4.1
Applications:	FC
Recommended Dilution:	Flow Cytometry, Immunoprecipitation and Western blotting.

Test Results: Tissue Distribution by Flow Cytometry Analysis: Rat Strain: Wister. Cell Concentration: 1x10e6 cells per tests. Antibody Concentration Used: 0.5 µg/10e6 cells. Isotypic Control: Biotin Mouse IgG1. Cell Source : Percentage of cells stained above control: Thymus : 90.0% Spleen Cells : 15.2% Lymph Nodes : 17.0% **Reactivity:** Rat Host: Mouse lgG1 Isotype: **Clonality:** Monoclonal Immunogen: Rat/mouse T cell hybrids expressing CD8. Specificity: This monoclonal antibody reacts with the beta chain of the CD8 differentiation antigen. The 3.4.1 antibody also blocks both activation in an allogenic response and cell mediated cytotoxicity by CD8 T cells. Formulation: PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: Biotin State: Liquid purified IgG fraction. **Concentration:** lot specific **Purification:** Protein G Chromatography of Ascites fluid.



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	Cd8b Mouse Monoclonal Antibody [Clone ID: 3.4.1] – SM260BX
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or (in alqiuots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD8b molecule
Database Link:	<u>Entrez Gene 24931 Rat</u> <u>P05541</u>
Background:	CD8b is expressed on most thymocytes and mature T cytotoxic/suppressor cells (MHC class I restricted). While the CD8a and CD8b form a heterodimer on the surface of thymocytes and thymus-dependent T cytotoxic/suppressor cells, the majority of NK cells, many CD8 T cells from athymic rats, many activated CD4 T cells, and intestinal epithelium lymphocytes (IEL) express CD8a without CD8b. This suggests that expression of the CD8 heterodimer (a/b) is more dependant on intrathymic
	T cell maturation than that of the homodimer (a/a). The thymus dependence of CD8a/b T cells may be due to a requirement for thymic selection on self MHC class I antigens.
Synonyms:	CD8B, CD8B1

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Protocol: Flow Cytometry Analaysis:

Method:

1. Prepare a cell suspension in media A. For cell peparations, deplete the red blood cell population with Lympholyte®-Rat cell separation medium.

2. Wash 2 times.

3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contain 1x10e6 cells, representing 1 test).

- 4. To each tube, add 50 μ l of a 1.0 μ g* dilution of SM260B or SM260BX per 10e6 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. Add 100 μ l of secondary antibody PE Streptavidin at 1:500 dilution.
- 9. Incubate the tubes at 4°C for 30-60 minutes.

(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).

- 10. Wash 2 times at 4°C in media B.
- 11. Resuspend the cell pellet in 50 μ l ice cold media B.

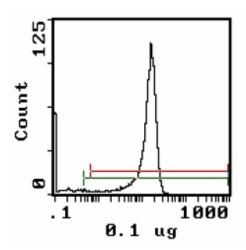
Transfer to suitable tubes for flow cytometric analysis containing 15 μ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:

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

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

Product images:



Cell Source: Thymus. Percentage of cells stained above control: 90.0%. Representative Histogram

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