

Product datasheet for **SM260FX**

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: FITC 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
Isotype: IgG1
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: FITC
State: Liquid purified IgG fraction.
Concentration: lot specific
Purification: Protein G Chromatography of Ascites fluid.



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Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD8b molecule
Database Link:	Entrez Gene 24931 Rat P05541
Background:	<p>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.</p> <p>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.</p>
Synonyms:	CD8B, CD8B1
Note:	Protocol: <u>Flow Cytometry Analysis:</u>

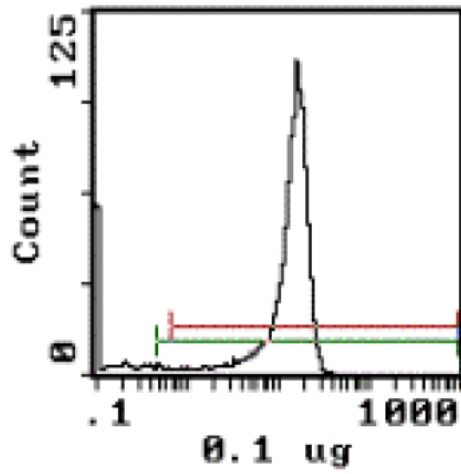
Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10⁷ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1x10⁶ cells, representing 1 test).
4. To each tube, add 0.1-0.5 µg* of SM260FX per 10⁶ cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
(It is recommended that the tubes are protected from light, since most flurochromes are light sensitive.)
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 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 µl of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Product images:



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