

Product datasheet for **SM264B**

Itgam Mouse Monoclonal Antibody [Clone ID: WT.3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	WT.3
Applications:	FC, IHC
Recommended Dilution:	Immunoprecipitation. Flow cytometry. Immunohistochemistry on cryostat sections. Functional studies: in vivo/in vitro.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This Antibody is specific for the β subunit of LFA-1. This antibody also recognizes MAC-1 and p150, 95 as well as LFA-1, since they all contain the same β subunit. It inhibits homeotypic aggregation of PHA blasts and blocks the binding of rat lymphocytes to purified rat ICAM-1
Formulation:	PBS, pH 7.2, with 0.09% NaN ₃ and 0.5% BSA. Label: Biotin State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Biotin
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:	integrin subunit alpha M
Database Link:	Entrez Gene 25021 Rat Q9J130



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Background: LFA-1 (lymphocyte function associated molecule-1) is one of the leukocyte integrins. It is a heterodimer consisting of α and β subunits of 160-170 kDa and 95-100 kDa respectively. LFA-1 promotes non-antigen dependent adhesion of T-cells to a variety of lymphoid cells that bear its complementary receptor I-CAM-1 (1). It has a broad distribution and is found on most common lymphocytes.

Synonyms: Integrin beta-2, MFI7

Note: Protocol: **FLOW CYTOMETRIC ANALYSIS:**

Method:

1. Prepare cell suspension in Media A. For cell preparations, deplete the red blood cell population with Lympholyte®-Rat cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2×10^7 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contains 1×10^6 cells. representing 1 test).
4. To each tube add 1.0 μ g of this Ab 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. Add 100 μ l of detection reagent (Streptavidin-FITC) at a 1/700 dilution.
9. Incubate 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.
12. Transfer to suitable tubes for flow cytometric analysis containing 15 μ 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 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).

Results - Tissue Distribution by Flow Cytometry Analysis:

(Representative Histogram)

Rat Strain: Wistar

Cell Concentration: 1×10^6 cells per test

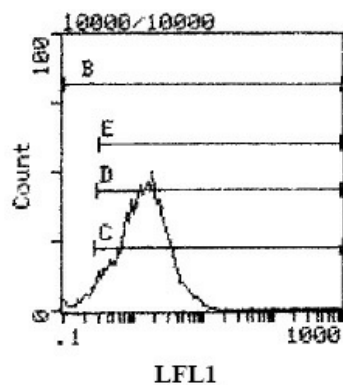
Antibody Concentration used: 1.0 μ g/ 10^6 cells

Isotypic Control: Biotin Mouse IgG1, κ

Cell Source Percentage of cells stained above control:

Thymus: 94.5%

Product images:



Cell Source: Thymus

Percentage of cells stained above control: 94.5%