

Product datasheet for **CL032F**

Sell Rat Monoclonal Antibody [Clone ID: MEL-14]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEL-14
Applications:	FC
Recommended Dilution:	Flow cytometry. Immunohistochemistry.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse B cell Lymphoma, 38C-14 Donor: Fischer Rat Spleen Fusion Partner: P3 X 63Ag8.653
Specificity:	This monoclonal antibody reacts with a 90 kDa protein which is involved with the homing of lymphocytes to peripheral lymph nodes.
Formulation:	PBS, 0.02% NaN ₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: FITC State: Liquid
Concentration:	lot specific
Purification:	Protein G Chromatography
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:	selectin, lymphocyte
Database Link:	Entrez Gene 20343 Mouse P18337



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Background: L-selectin is expressed on most T and B lymphocytes, neutrophils, monocytes, eosinophils.¹ Pre-incubation of lymphocytes with this antibody completely and specifically blocks binding of lymphocytes to high endothelial venules (HEV) in vitro ^{2,3,6} and the migration of lymphocytes to lymph nodes in vivo.^{2,3} Polymorphonuclear cells preincubated with this antibody do not migrate to the inflammatory foci.

Synonyms: SELL, LNHR, LYAM1, Leu-8, TQ1, gp90-MEL, LECAM1, LAM-1

Note: Protocol: **FLOW CYTOMETRY ANALYSIS:**

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 2×10^7 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test).
4. To each tube, add 0.2 - 0.5 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. (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive).
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 μ l ice cold media B.
9. 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).

Results - Tissue Distribution by:

Mouse Strain: BALB/c

Cell Concentration: 1×10^6 cells per test

Antibody Concentration Used: 0.2 μ g/ 10^6 cells

Isotypic Control: FITC Rat IgG2a

Cell Source: Percentage of cells stained above control:

Thymus: 88.8%

Spleen: 36.6%

Lymph Node: 74.4%

Strain Distribution:

Cell Concentration: 1×10^6 cells per test

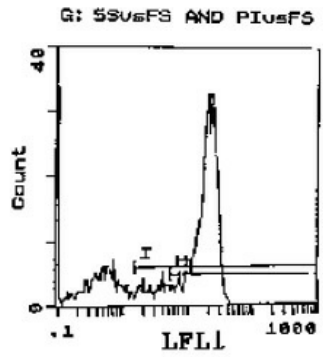
Antibody Concentration Used: 0.2 μ g/ 10^6 cells

Strains Tested: BALB/c, CBA/J, C3H/He, C57BL/6, AKR

Positive: BALB/c, CBA/J, C3H/He, C57BL/6, AKR

Negative: none

Product images:



Cell Source: Lymph Node
 Percentage of cells stained above control: 74.4%