

Monoclonal Antibody to Neutrophils - PE

Catalog No.:	CLO50RX
Quantity:	0.3 mg
Concentration:	0.1 mg/ml
Host / Isotype:	Rat / IgG2a
Clone:	7/4
Immunogen:	Cultured bone marrow cells
Format:	State: Liquid Purification: Protein A affinity purified Ig Buffer System: PBS with 0.09% NaN ₃ as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: PE – conjugated <i>Absorption / Emission:</i> 488 nm / 575 nm
Applications:	Flow cytometry (see protocol). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Reacts with mouse neutrophils. Strains to be positive for the 7/4 clone are: AKR, C57BL/6, C57BL/10, C58, DBA/2, MF1, NZB, NZW, SJL, Swiss (PO), 129J. Strains reported to be negative/weak for the 7/4 clone: A2G, A/Sn, ASW, BALB/2, C3H/HEH and CBA.T6T6. Species: Mouse. Other species not tested.
Add. Information:	This clone has also been reported to work in Western blotting and immunohistochemistry (frozen and paraffin sections, 2).
Storage:	Store at 4°C. DO NOT FREEZE. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	1. Hirsch, S. and Gordon, S. (1983). Polymorphic expression of a neutrophil differentiation antigen revealed by a monoclonal antibody 7/4. <i>Immunogenetics</i> 18:229-239. 2. Gordon, S. et al. (1992). Antigen markers of macrophage differentiation in murine tissues. <i>Curr. Top. Microbio. Immunol.</i> 181:1-37.
Protocols:	FLOW CYTOMETRY ANALYSIS: Method: 1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population using an NH ₄ Cl lysing buffer. 2. Wash 2 times.

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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 ~ 1.0 μ g of CL050R 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).

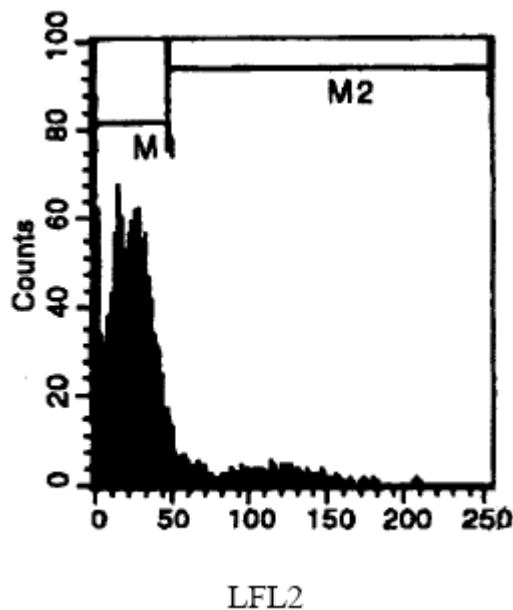
Results - Tissue Distribution:

Mouse Strain: C57BL/6

Cell Concentration: 1×10^6 cells per test

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

Isotypic Control: PE Rat IgG2a

Pictures:

Cell Source: Peripheral Blood Leukocytes
- Percentage of cells stained above control: 11.4%

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