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# Product datasheet for CL050RX

## Neutrophils Rat Monoclonal Antibody [Clone ID: 7/4]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | 7/4 |
| **Applications:** | FC |
| **Recommended Dilution:** | Flow cytometry (see protocol). |
| **Reactivity:** | Mouse |
| **Host:** | Rat |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Cultured bone marrow cells |
| **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.<br>Strains reported to be negative/weak for the 7/4 clone: A2G, A/Sn, ASW, BALB/2, C3H/HEH and CBA.T6T6. |
| **Formulation:** | PBS with 0.09% NaN3 as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml<br>Label: PE<br>State: Liquid<br>Label: conjugated<br>Absorption emission: 488 nm / 575 nm |
| **Concentration:** | lot specific |
| **Purification:** | Protein A affinity purified Ig |
| **Conjugation:** | PE |
| **Storage:** | Store at 4°C. DO NOT FREEZE. This product is photosensitive and should be protected from light. |
| **Stability:** | Shelf life: one year from despatch. |

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**Note:** This clone has also been reported to work in Western blotting and immunohistochemistry (frozen and paraffin sections, 2).

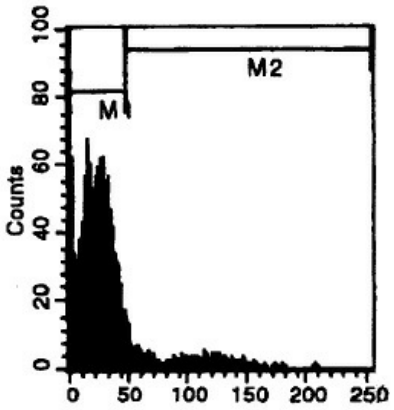
Protocol: **FLOW CYTOMETRY ANALYSIS:**

**Method:**
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population using an NH4Cl lysing buffer.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1x10e6 cells, representing 1 test).
4. To each tube, add ~1.0 µg of CL050R 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. (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 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).

**Results - Tissue Distribution:**
Mouse Strain: C57BL/6
Cell Concentration: 1x10e6 cells per test
Antibody Concentration Used: 1.0 µg/10e6 cells
Isotypic Control: PE Rat IgG2a

## Product images:




LFL2

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