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Product datasheet for CL050R

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. 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% Sodium Azide as preservative and 1% EIA grade BSA as a stabilizing protein. Label: PE State: Liquid purified Ig fraction. Label: conjugated Absorption emission: 488 nm / 575 nm
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A.
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°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).

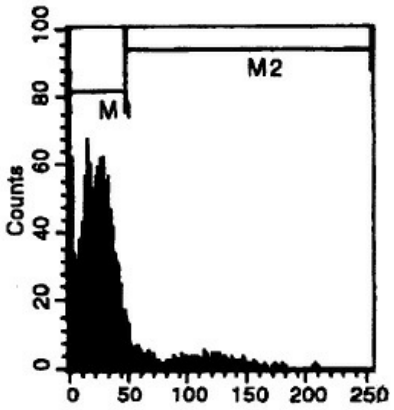
Protocol: **FLOW CYTOMETRY ANALYSIS:**

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%