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CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse Granulocytes (Gr-1)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8991A	Ascites	0.5ml	NA	CLCR2B00
CL8991AP	Purified	250µg	1.0 mg/ml	CLCR2B00
CL8991NA	Purified	1.0ml	1.0 mg/ml	CLCR2B00
CL8991B	Biotin	100µg	0.1 mg/ml	CLCR2B15
CL8991B-3	Biotin	300µg	0.1 mg/ml	CLCR2B15
CL8991F	FITC	100µg	0.1 mg/ml	CLCR2B01
CL8991F-3	FITC	300µg	0.1 mg/ml	CLCR2B01
CL8991APC	APC	100µg	0.1 mg/ml	CLCR2B05
CL8991PE	PE	50µg	0.1 mg/ml	CLCR2B04
CL8991AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Rat IgG_{2b}

DESCRIPTION:

Cedarlane's anti-mouse Gr-1 monoclonal antibody reacts with the myeloid differentiation antigen Gr-1. (1,2). This 25-30 kDa cell surface antigen is expressed on myeloid cells but not lymphoid or erythroid cells. The expression of the Gr-1 antigen increases with granulocyte maturation (3) as shown by the distinct populations of bone-marrow cells this monoclonal antibody labels: negative, low positive and high positive. Expression is transient on cells of monocytic lineage (3).

CL8991 is a useful antibody for studies of myeloid differentiation stages and their regulations by cytokines. Applications include flow cytometry (1,2,3) complement-mediated depletion (4) Western blot staining (5) and both frozen and paraffin sections (6).

PRESENTATION:

Ascites: Lyophilized

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

APC, Biotin, FITC, PE and AF488: Biotin/FITC/PE/AF488 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

No Azide: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.

STORAGE/STABILITY:

Store **Ascites** at -20°C. For all other formats, store at 4°C. **DO NOT FREEZE APC, PE and AF488** conjugates. For long term storage (**Purified, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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registered company.

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SPECIFICATIONS:

Clone: RB6-8C5

Immunogen: granulocytes of mouse origin

Specificity: Mouse Gr-1

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

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

Negative: None

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

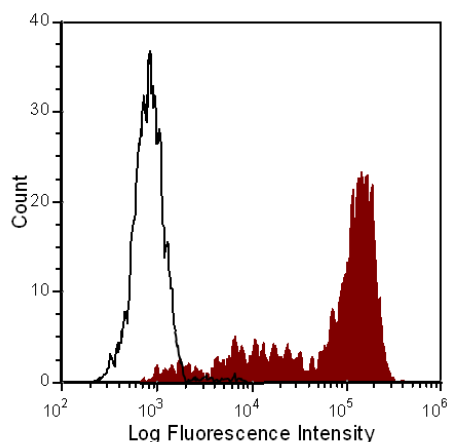
Cell Concentration: 1×10^6 cells per test

Antibody Concentration Used: $0.2 \mu\text{g}/10^6$ cells

Cell Source

Percentage of cells stained above control:

Thymus	2.0%
Whole Blood Monocytes	79.1%
Bone Marrow Macrophages	87.5%



Balb/c mouse bone marrow (high SSC population) was stained with anti-Granulocytes (Gr-1) (clone: RB6-8C5) (filled histogram) or rat IgG2b isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

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