OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CL046

Ly6g Rat Monoclonal Antibody [Clone ID: RB6-8C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RB6-8C5
Applications:	CT, FC, WB
Recommended Dilution:	Flow Cytometry. Complement mediated depletion. Western blot. Immunohistochemistry on Frozen and Paraffin Sections.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Specificity:	This antibody 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).
Formulation:	State: Ascites State: Lyophilized Ascites (non-sterile filtered to 0.45 µm).
Reconstitution Method:	Restore with 0.5 ml of cold distilled water.
Conjugation:	Unconjugated
Storage:	Prior to reconstitution and Following reconstitution 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:	lymphocyte antigen 6 complex, locus G
Database Link:	Entrez Gene 546644 Mouse P35461

View online »

Synonyms: Gr-1 Granulocyte marker

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 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test).
4. To each tube, add 50 µl of a 1:5000-1:10000 dilution* of this AB.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add 100 µl of secondary antibody (FITC Goat anti-rat IgG (H+L)) at a 1:500 dilution.
9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C.
11. Resuspend the cell pellet in 50 µl ice cold media B.
12. 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).

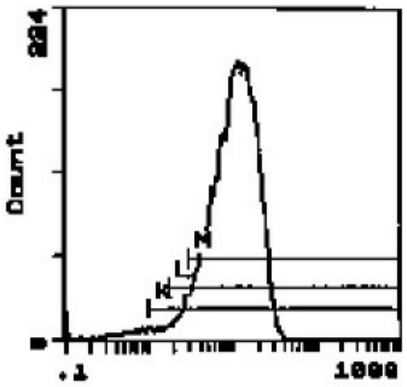
Results - Tissue Distribution:
Mouse Strain: BALB/c
Cell Concentration: 1x10e6 cells per test
Antibody Concentration Used: 50µl of a 1:5000 dilution/10e6 cells
Isotypic Control: Rat IgG2b

Cell Source Percentage of cells stained above control:
Thymus: 9.7%
Whole Blood - Granulocytes: 98.6%
Whole Blood - Monocytes: 93.5%
Bone Marrow - Granulocytes: 88.9%
Bone Marrow - Monocytes: 93.2%

Results - Strain Distribution:
Cell Concentration: 1x10e6 cells per test
Antibody Concentration Used: 1:5000 in 50µl/10e6 cells

Strains Tested: BALB/c, C57BL/6, CBA, C3H/He, AKR
Positive: BALB/c, C57BL/6, CBA, C3H/He, AKR
Negative: none

Product images:



LFL1

Cell Source: Bone Marrow Monocytes -
Percentage of cells stained above control: 93.2%