

## Rabbit anti-Mouse Ly6G/Ly6C Monoclonal Antibody | anti-Ly6G/Ly6C antibody

Anti-Ly6G/Ly6C [RB6-8C5]

|                              |                       |                            |                                                                                             |
|------------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA72103</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay</b> |
|------------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

Ly6G/Ly6C; Monoclonal Antibody; Anti-Ly6G/Ly6C [RB6-8C5]; Gr-1; Gr1; Ly-6G; ly-6G.1; ly6C; anti-Ly6G/Ly6C antibody

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactivity                                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality                                           | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isotype                                             | Rabbit IgG, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clone Number                                        | RB6-8C5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity                                         | This antibody is specific for murine Ly6G, a 21-25 kDa glycosylphosphatidylinositol (GPI)-linked protein expressed by the myeloid-derived cells in a tightly developmentally-regulated manner in the bone marrow. Monocytes express Ly6G transiently during bone marrow development, while Ly6G expression in granulocytes and peripheral neutrophils directly correlates with the cell's level of differentiation and maturation. This hallmark makes Ly6G a good marker for these particular cell populations. Ly6G has also been implicated in the development of antitumor responses. |
| Purity/Purification                                 | Protein A affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                         | PBS with 0.02% Proclin 300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Concentration                                       | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-Ly6G/Ly6C antibody | IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Chimeric Use Statement                              | This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.                                                                                                                                                                                                                                                                                                                                                                                                    |
| PMID                                                | 12077275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                           | This antibody was raised in Lou-M rats using a popliteal lymph node immunisation and fusion protocol as described by Martiniello et al (1994)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage                             | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

IMAGES



**FCM/FACS (Flow Cytometry)**  
Flow-cytometry using the Anti-Ly6G/Ly6C antibody RB6-8C5 (AAA72103). Mouse splenocytes were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG version of RB6-8C5 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



**IF (Immunofluorescence)**  
Immunofluorescence staining of mouse splenocytes using anti-Ly6G/Ly6C antibody (AAA72103) RB6-8C5. Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes immobilized on Shi-fix cover-slips and stained with the chimeric rabbit IgG version of RB6-8C5 ( ) at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining in subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

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| Related Product Information for anti-Ly6G/Ly6C antibody | Recombinant monoclonal antibody to Ly6G/Ly6C. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma RB6-8C5.                                                                                                                                                                                                                |
| Product Categories/Family for anti-Ly6G/Ly6C antibody   | immunology; oncology; immuno-oncology; CD markers                                                                                                                                                                                                                                                                                                      |
| References                                              | Stephen Hurst et al. New IL-17 family members promote Th1 or Th2 responses in the lung: in vivo function of the novel cytokine IL-25. J Immunol. 2002 Jul 1;169(1):443-53.<br>Note on publication: Describe the use of this antibody for FACS analysis and in vivo cell depletion to demonstrate the function of the novel cytokine IL-25 in the lung. |

NCBI AND UNIPROT INFORMATION

|                            |                       |
|----------------------------|-----------------------|
| NCBI GI #                  | 547876                |
| UniProt Accession #        | P35461                |
| Molecular Weight           | 11,798 Da             |
| NCBI Official Full Name    | Lymphocyte antigen 6G |
| UniProt Protein Name       | Lymphocyte antigen 6G |
| UniProt Gene Name          | Ly6g                  |
| UniProt Synonym Gene Names | Ly-6G                 |
| UniProt Entry Name         | LY6G_MOUSE            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.