

# Anti-Mouse Ly-6G/Ly-6C (RB6-8C5) In Vivo Antibody - Low Endotoxin

**Product Code:** ICH1131

**Bulk anti-Ly-6G/Ly-6C In Vivo Antibody - Low Endotoxin (RB6-8C5)**

## **Bio X Cell:**

ICH1131 is [up to 37% cheaper](#) for industry than the equivalent product (BE0075) from Bio X Cell. ICH1131UL is up to 36% cheaper than the ultra-low endotoxin version from Bio X Cell (BP0075).

## **Product Benefits:**

ichorbio's anti-Ly-6G/Ly-6C In Vivo Antibody - Low Endotoxin (RB6-8C5) is manufactured in a cGMP compliant facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (<0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

## **Target:**

Ly-6G/Ly-6C

## **Clone:**

RB6-8C5

## **Size:**

ichorbio's RB6—8C5 *in vivo* antibody is available in the following bulk sizes: 1mg, 5mg, 25mg, 50mg and 100mg ichorbio regularly manufactures multi-gram amounts of our anti-Ly-6G/Ly-6C RB6—8C5 clone - please contact us for pricing.

## **Isotype:**

Rat IgG2b

**Other Names:**

Ly-6G/LY-6C, Gr-1, Myeloid

**Host:**

Rat

**Species Reactivity:**

Mouse

**Purification Method:**

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

**Antigen Distribution:**

The Gr-1 antigen is present at various levels correlated with granulocyte differentiation and maturation. The Gr-1 antigen is expressed on other myeloid populations, but not on lymphoid or erythroid cells.

**Background:**

Gr-1 is a 21-25 kD protein also known as Ly-6G/Ly-6C. This myeloid differentiation antigen is a glycosylphosphatidylinositol (GPI)-linked protein expressed on granulocytes and macrophages. Clone RB6-8C5 antibody has been shown to inhibit the binding of the clone 1A8 antibody. Clone 1A8 monoclonal antibody reacts specifically with mouse Ly6G with no reported cross-reactivity with Ly6C.

**Immunogen:**

Raised against granulocytes of mouse origin

**Concentration:**

0.5 mg/ml

**Formulation:**

0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and Azide free.

**Purity:**

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

**Endotoxin:**

$\leq 1.0$  EU/mg as determined by the LAL method

$\leq 0.75$  EU/mg as determined by the LAL method

**Aggregation:**

Aggregation level  $\leq 5\%$

Aggregation level  $\leq 1\%$

**IMPACT Pathogen Test:**

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our rat antibodies are tested for: Mycoplasma spp Mycoplasma pulmonis Pneumonia virus of mice Kilham's rat virus Toolan's H1 virus Rat parvovirus Lymphocytic choriomeningitis virus Rat cytomegalovirus Sendai virus Rat coronavirus Sialodacryoadenitis virus Rat minute virus Seoul virus Mouse adenovirus Reovirus 3 Rat theilovirus

**Storage:**

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at -20°C or -80°C. Avoid repeated freeze thaw cycles.

**Applications:**

Immunoprecipitation, Western Blot, Flow Cytometry, Functional Assays, IHC (Frozen), IHC (Paraffin), Immunocytochemistry, Immunofluorescence, In Situ Hybridization

**Application Notes:**

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Each investigator should determine their own optimal working dilution for specific applications.

### **Use:**

Products are for research use only.

### **Isotype Control:**

[Rat IgG2b In Vivo Isotype Control - Low Endotoxin \[1-2\] \(ICH2243\)](#)

### **Antibodies against the same target:**

[Anti-Ly-6C In Vivo Antibody - Low Endotoxin \[HK1.4\] \(ICH1111\)](#), [Anti-Ly-6C In Vivo Antibody - Low Endotoxin \[7B10\] \(ICH1095\)](#), [Anti-Ly-6G In Vivo Antibody - Low Endotoxin \[1A8\] \(ICH1089\)](#), [Anti-Ly-6G In Vivo Antibody - Ultra Low Endotoxin \[1A8\] \(ICH1089\)](#)

### **Immunofluorescence of frozen tissue sections**

Sample: Frozen sections of tumor tissues from tumor bearing C57BL / 6 mice (inoculated with LLC cells) Protocol: 1. Tumors were dissected, fixed in 4% paraformaldehyde, and dehydrated in 30% sucrose; 2. Frozen tumor sections were prepared at 25 °C and rinsed in PBS 3. Blocking buffer: PBS containing 0.3% Triton + 5% goat serum; Sections were blocked for 1h; 4. Primary antibodies: Diluted in blocking buffer; incubated overnight at 4°C. Final concentration of RB6-8C5 clone (low) 7µg/ml, Final concentration (high) 35µg/ml. Positive signals were detected at both high and low concentrations) 5. Washed by PBST; Secondary antibodies: incubated at 4°C for 6h; DAPI: 2h Details of secondary antibody 6. Alexa Fluor 647-AffiniPure Goat Anti-Rat IgG (H+L) (min X Hu,Bov,Hrs Sr Prot) antibody - Jackson ImmunoResearch Labs Cat# 112-605-062 - conc. 7.5µg/ml. 6. Washed by PBST at least 6 times 7. Add fluorescence decay resistant medium, seal slice 8. Detected by the laser scanning confocal microscope. Scale bar in the IF figure is 50 µM.

### **Alternative Names:**

- Gr-1 antibody
- Gr1 antibody
- Ly-6G.1 antibody
- Ly6G antibody
- Lymphocyte antigen 6 complex locus G antibody
- Lymphocyte antigen 6G antibody