# Anti-Mouse Ly-6G (1A8) In Vivo Antibody - Low Endotoxin

**Bulk anti-Ly-6G In Vivo Antibody - Low Endotoxin (1A8)**

**Product Benefits:**

ichorbio's anti-Ly-6G In Vivo Antibody - Low Endotoxin (1A8) 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

**Clone:**

1A8

**Isotype:**

Rat IgG2a

**Other Names:**

Lymphocyte antigen 6 complex, locus G

**Host:**

Rat

**Species Reactivity:**

Mouse

**Specificity:**

Anti-Ly-6G In Vivo Antibody - Low Endotoxin (1A8) recognizes an epitope on Mouse Ly-6G. Unlike clone RB6-8C5 antibody, the 1A8 antibody reacts specifically with mouse Ly6G with no reported cross-reactivity with Ly6C

**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:**

Expressed on the majority of myeloid cells in bone marrow and peripheral granulocytes.

**Background:**

Ly-6G is a 21-25 kD GPI-anchored protein, is expressed on the majority of myeloid cells in bone marrow and peripheral granulocytes.

**Immunogen:**

Mouse Ly-6G transfected EL-4J cell line

**Concentration:**

1.0 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:**

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

**Aggregation:**

Aggregation level ? 5%

Aggregation level ? 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:**

IHC (FFPE), IHC (Frozen), Flow Cytometry, Western Blot, In vivo Depletion, Immunfluorescence

**Application Notes:**

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

**Use:**

Products are for research use only.

**Isotype Control:**

Rat IgG2a In Vivo Isotype Control - Low Endotoxin [1-1] (ICH2244)

**Antibodies against the same target:**

Anti-Ly-6G/Ly-6C In Vivo Antibody - Low Endotoxin [RB6-8C5] (ICH1131), Anti-Ly-6G/Ly-6C In Vivo Antibody - Ultra Low Endotoxin [RB6-8C5] (ICH1131UL), Anti-Ly-6C In Vivo Antibody - Low Endotoxin [HK1.4] (ICH1111), Anti-Ly-6C In Vivo Antibody - Low Endotoxin [7B10] (ICH1095)

**Immunofluorescence of paraffin embedded tissue sections (Image 1&2)**

Immunofluorescence analysis of paraffin-embedded mouse spleen tissue section labeling Ly6g (1:100 dilution) overnight at 4?, followed by goat anti-mouse IgG H&L (Alexa Fluor ® 647-red) secondary antibody (1:500 dilution). The nuclear counter stain is DAPI (blue). Image was acquired on a Nikon A1R microscope system at 4x magnification (100um panel) or 60x magnification (20um panel). Images provided by Binaree, Inc.

**Immunofluorescence of frozen tissue sections (Image 3)**

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 ? 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?. Final concentration of ichorbio Ly-6G antibody clone 1A8 (low) 1.3?g/ml, Final concentration (high) 6.5?g/ml. Positive signals were detected at both high and low concentrations 5. Washed by PBST; Secondary antibodies: incubated at 4? for 6h; DAPI: 2h Details of secondary antibody: 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. 7.5?g/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 ?M. Images produced by Dr. Qin from State Key Laboratory of Genetic Engineering, School of Life Sciences of Fudan University

**Alternative Names:**

- DNA replication inhibitor antibody
- Gem antibody

- GEMI_HUMAN antibody
- Geminin antibody
- Geminin DNA replication inhibitor antibody
- GMNN antibody
- OTTHUMP00000039393 antibody
- RP3 369A17.3 antibody