

Anti-Mouse GM-CSF (MP1-22E9) In Vivo Antibody - Low Endotoxin

Product Code: ICH1125

Bulk anti-GM-CSF In Vivo Antibody - Low Endotoxin (MP1-22E9)

Bio X Cell:

ICH1125 is [up to 37% cheaper](#) for industry than the equivalent product BE0259 from Bio X Cell. **Product Benefits:**

ichorbio's anti-GM-CSF In Vivo Antibody - Low Endotoxin (MP1-22E9) 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:

GM-CSF

Clone:

MP1-22E9

Size:

ichorbio's MP1-22E9 *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-GM-CSF MP1-22E9 clone - please contact us for pricing.

Isotype:

Rat IgG2a

Other Names:

ichor.bio // hello@ichor.bio

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Csf2, Granulocyte-macrophage colony-stimulating factor, Colony-stimulating factor, CSF, Csfgm

Uniprot:

[P01587](#)

Host:

Rat

Species Reactivity:

Mouse

Specificity:

Anti-GM-CSF In Vivo Antibody - Low Endotoxin (MP1-22E9) recognizes an epitope on Mouse GM-CSF

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

Background:

Granulocyte-macrophage colony-stimulating factor, often abbreviated to GM-CSF is a pleiotropic cytokine that controls the production and function of blood cells. GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes. GM-CSF has a critical role in regulation of surfactant homeostasis and alveolar macrophage innate immune functions in the lung.

Immunogen:

Yeast Derived Recombinant Mouse GM-CSF

Concentration:

1.0 - 5.0 mg/ml

Formulation:

0.2 μ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.3 containing 5.0% w/v trehalose with no calcium, magnesium or preservatives present. 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:

Western Blot, ELISA, ELISPOT, Blocking, Immunocytochemistry, IHC (Frozen)

Application Notes:

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Western Blotting: To detect Mouse GM-CSF this monoclonal antibody can be used at a concentration of 1-2 µg/ml. Each investigator should determine their own optimal working dilution for specific applications.

Use:

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Isotype Control:

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

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 ichorbio GM-CSF antibody clone MP1-22E9 (low) 2.7µg/ml, Final concentration (high) 13.5µg/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: 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. Images produced by Dr. Qin from State Key Laboratory of Genetic Engineering, School of Life Sciences of Fudan University