

Anti-Mouse CD8 Beta (53-5.8) In Vivo Antibody - Low Endotoxin

Product Code: ICH1046

Bulk anti-CD8 beta In Vivo Antibody - Low Endotoxin (53-5.8)

Bio X Cell:

ICH1046 is [up to 37% cheaper](#) for industry than the equivalent products BE0223 (low endotoxin) from Bio X Cell. **Product Benefits:**

ichorbio's anti-CD8 beta In Vivo Antibody - Low Endotoxin (53-5.8) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 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:

CD8 beta

Clone:

53-5.8

Size:

ichorbio's 53-5.8 *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-CD8 beta 53-5.8 clone - please contact us for pricing.

Isotype:

Rat IgG1

Other Names:

Cd8b, Lymphocyte antigen 3, T-cell membrane glycoprotein Ly-3, T-cell surface glycoprotein Lyt-3, Cd8b1, Ly-3, Lyt-3, Lyt3

Uniprot:

[P10300](#)

Host:

Rat

Species Reactivity:

Mouse

Specificity:

Anti-CD8 beta In Vivo Antibody - Low Endotoxin (53-5.8) recognizes an epitope on mouse CD8b.2 and antibody clone 53-5.8 is specific for Ly-3.2 and has low reactivity with Ly-3.1

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:

Majority of thymocytes, cytotoxic T cell subsets

Background:

CD8b is also known as Lyt-3.2 or Ly-3.2. It is a member of the Ig superfamily expressed as a heterodimer with the CD8A chain on a subset of MHC class I-restricted T cells and most thymocytes.

Immunogen:

Mouse thymus or spleen

Concentration:

1.0 - 5.0 mg/ml

Formulation:

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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:

Western Blot, Functional Assays, Flow Cytometry, Immunocytochemistry, IHC (Frozen), Immunoprecipitation

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 IgG1 Isotype Control for In Vivo - Low Endotoxin \[GL113\] \(ICH2246\)](#)

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 CD8 beta antibody clone 53-5.8 (low) 3.5µg/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: 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