

Anti-Mouse IL-4 (11B11) In Vivo Antibody - Low Endotoxin

Bulk anti-IL-4 In Vivo Antibody - Low Endotoxin (11B11)

Product Benefits:

ichorbio's anti-IL-4 In Vivo Antibody - Low Endotoxin (11B11) 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:

IL-4

Clone:

11B11

Isotype:

Rat IgG1

Other Names:

Interleukin-4, Il-4, B-cell IgG differentiation factor, B-cell growth factor 1, B-cell stimulatory factor 1, BSF-1, IGG1 induction factor, Lymphocyte stimulatory factor 1

Uniprot:

[P07750](#)

Host:

Rat

Species Reactivity:

Mouse

Specificity:

Anti-IL-4 In Vivo Antibody - Low Endotoxin (11B11) recognizes an epitope on Mouse IL-4

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:

Interleukin-4 (IL-4) is a pleiotropic immune cytokine secreted by activated TH2 cells that inhibits bone resorption. IL-4 is critical for inducing allergic responses. It has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of CD4⁺ T-cells into Th2 cells. It is also a key regulator in humoral and adaptive immunity. IL-4 is required for the pathogenesis of atopic diseases and immune regulation.

Immunogen:

Purified Recombinant Mouse IL-4 (>98%)

Concentration:

1.0 - 5.0 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:

0.5 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%

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:

ELISA Capture, ELISPOT, Flow Cytometry, Neutralization, Immunoprecipitation, Functional Assays, CyTOF, Immunohistochemistry

Application Notes:

ELISA Sandwich: This antibody is useful as the capture antibody in a sandwich ELISA. The suggested coating concentration is 0.5-2.0 µg/ml. **ELISPOT Capture:** This Low Endotoxin Functional Formulation antibody has been reported for use as the capture antibody in a sandwich ELISPOT assay. Aseptically coat plates at a concentration of 2-6 µg/ml is recommended. **Neutralization:** Anti-Mouse IL-4 (clone 11B11) antibody can neutralize the bioactivity of natural or recombinant IL-4. The Low Endotoxin Functional Formulation purified antibody (Endotoxin 0.1 EU/?g, Azide-Free, 0.2 ?m filtered) is recommended for neutralization of mouse IL-4 bioactivity in vivo. 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 \[GL113\] \(ICH2246\)](#)

Alternative Names:

- B cell growth factor 1 antibody
- B cell IgG differentiation factor antibody
- B Cell Stimulatory Factor 1 antibody
- B-cell stimulatory factor 1 antibody
- BCGF 1 antibody
- BCGF1 antibody
- Binetrakin antibody
- BSF-1 antibody
- BSF1 antibody
- IGG1 induction factor antibody
- IL 4 antibody
- IL-4 antibody
- IL4 antibody
- Il4e12 antibody
- Interleukin 4 antibody
- Interleukin 4 variant 2 antibody
- Interleukin 4, isoform 1 antibody
- Interleukin-4 antibody
- Lymphocyte stimulatory factor 1 antibody
- MGC79402 antibody
- Pitrakinra antibody