# ichorbio

# 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 <u>Bio X Cell</u> 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:**

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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  $-20^{\circ}$ C or  $-80^{\circ}$ C. Avoid repeated freeze thaw cycles.

#### **Applications:**

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

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# **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  $\mu$ g/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  $\mu$ g/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:

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## **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

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