

Technical Data Sheet

InVivoPlus anti-mouse IL-4



bioxcell.com

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

Lot Specific Information

Lot Number: Lot Specific*
Volume: Lot Specific*
Concentration: Lot Specific* (generally 4 to 11 mg/ml) *
Total Protein: Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Product Website Link: <https://bioxcell.com/invivoplus-anti-mouse-il-4-bp0045>

Product Information

Catalog Number: **BP0045**
Clone: **11B11**
Isotype: Rat IgG1, κ
Recommended Isotype Control(s): InVivoPlus rat IgG1 isotype control, anti-horseradish peroxidase
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Partially purified native mouse IL-4
Reported Applications: *in vivo* IL-4 neutralization
in vitro IL-4 neutralization
in vivo IL-4 receptor stimulation (as a complex with IL-4)
Flow cytometry
Western blot
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
Aggregation: $< 5\%$
Determined by SEC
RRID: [AB_1107707](https://abnova.com/AB_1107707)
Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The 11B11 monoclonal antibody reacts with mouse IL-4 (interleukin-4) a multifunctional 14 kDa cytokine. IL-4 is expressed primarily by activated Th2 cells and NK cells, and at lower levels by mast cells, and basophils. IL-4 signals through the IL-4R α . Upon receptor binding IL-4 stimulates activated B and T lymphocyte proliferation, and the differentiation of B cells into

plasma cells. It also induces B cell class switching to IgE, and up-regulates MHC class II production while decreasing the production of Th1 cells, macrophages, IFN γ , and dendritic cell IL-12. Like other Th2 associated cytokines, IL-4 is involved in the airway inflammation observed in the lungs of patients with allergic asthma. The 11B11 monoclonal antibody has been shown to neutralize the bioactivity of natural or recombinant IL-4.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

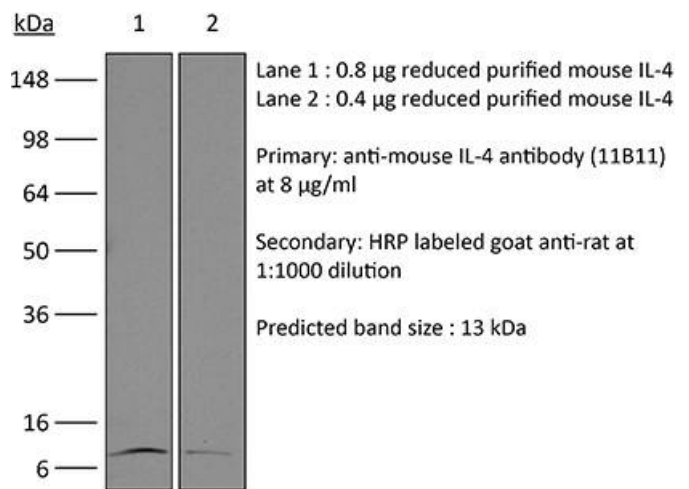
Application References

For a complete list of references, visit https://bioxcell.com/invivoplus-anti-mouse-il-4-bp0045?utm_source=cr9k1b#tab_references or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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