

# Technical Data Sheet

## RecombiMAb anti-mouse IL-4R $\alpha$ (CD124) (LALA-PG)



[bioxcell.com](https://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/recombimab-anti-mouse-il-4r-alpha-cd124-lala-pg-cp246>

### Product Information

Catalog Number: CP246  
Clone: REGN1103-CP246  
Isotype: Mouse IgG2a (LALA-PG),  $\kappa$   
Recommended Isotype Control(s): RecombiMAb mouse IgG2a (LALA-PG) isotype control, unknown specificity  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Mutations: LALA-PG  
Immunogen: Mouse Interleukin-4 receptor subunit alpha (IL-4R $\alpha$ )  
Reported Applications: *in vivo* blockade of mouse IL-4R $\alpha$ \*  
*in vitro* blockade of mouse IL-4R $\alpha$ \*  
Western blot  
\*These applications are reported for the original REGN1103 (mouse IgG1,  $\kappa$  isotype) antibody.  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin:  $\leq 0.5$  EU/mg ( $\leq 0.0005$  EU/ $\mu$ g)  
Determined by LAL assay  
Purity:  $\geq 95\%$   
Determined by SDS-PAGE  
Sterility: 0.2  $\mu$ m filtration  
Production: Purified from mammalian cell supernatant in an animal-free facility  
Purification: Protein G  
Aggregation:  $< 5\%$   
Determined by SEC  
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 REGN1103-CP246 antibody is a recombinant mouse IgG2a isotype variant of the anti-mouse interleukin-4 receptor alpha subunit (IL-4R $\alpha$ ) clone REGN1103. The REGN1103 antibody is an established mouse surrogate antibody of a human

IL-4Rα-specific dupilumab antibody. The REGN1103-CP246 antibody reacts with murine IL-4Rα, a type I transmembrane cytokine receptor that is also called CD124, IL4ra, and IL-4-binding protein (IL4-BP). In mice, IL-4Rα is expressed broadly on hematopoietic cells, including T and B lymphocytes, NK cells, basophils, mast cells, and monocytes/macrophages, and on non-hematopoietic tissues such as endothelial cells, adipocytes, hepatocytes, and certain neurons. IL-4Rα serves as the essential signaling subunit for both type I (IL-4Rα/γc) and type II (IL-4Rα/IL-13Rα1) receptor complexes. IL-4Rα binds IL-4 with high affinity to promote Th2 differentiation. IL-4Rα also responds to IL-13 to regulate the production of IgE, chemokine, and mucus at sites of allergic inflammation. Ligand engagement triggers JAK1/3 (type I) or JAK1/2–TYK2 (type II) activation, leading to STAT6 phosphorylation and transcriptional programs that drive Th2 differentiation, IgE class switching in B cells, alternative (M2) macrophage activation, and tissue remodeling. Neutralizing antibodies against mouse IL-4Rα are a powerful tool to dissect IL-4/IL-13 biology, facilitating mechanistic experiments, biomarker validation, and combination-therapy screening in preclinical in vivo models of tumor immunity, allergy, fibrosis, and infection.

## 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/recombimab-anti-mouse-il-4r-alpha-cd124-lala-pg-cp246?utm\\_source=cr9k1b#tab\\_references](https://bioxcell.com/recombimab-anti-mouse-il-4r-alpha-cd124-lala-pg-cp246?utm_source=cr9k1b#tab_references) or scan the QR code below.



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