

Technical Data Sheet

RecombiMAb anti-mouse IL-23 (p19) (LALA-PG)



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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-23-p19-lala-pg-cp240>

Product Information

Catalog Number: CP240
Clone: G23-8-CP240
Isotype: Mouse IgG2a, κ
Recommended Isotype Control(s): RecombiMAb mouse IgG2a (LALA-PG) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: LALA-PG
Immunogen: Insect cell-expressed, recombinant mouse IL-23 heterodimer
Reported Applications:
Western blot
in vivo IL-23p19 neutralization*
*Reported for the original G3-28 antibody
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 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 G23-8-CP240 monoclonal antibody is a recombinant, chimeric version of the original G23-8 antibody. The variable domain sequences are identical but the constant region sequences have been switched from Rat IgG1, κ to mouse IgG2a, κ for use in murine models. Additionally, G23-8-CP240 includes the Fc silencing mutation variant LALA-PG, rendering it unable to bind endogenous murine Fc γ receptors or C1q to induce antibody-dependent cell-mediated cytotoxicity (ADCC) or

complement-dependent cytotoxicity (CDC). This results in cytokine neutralization without Fc mediated depletion or immune activation like the Fc-silent therapeutic monoclonal antibody Risankizumab. The LALA-PG variant has demonstrated significantly reduced effector function, C1q binding and C3 fixation while retaining favorable biophysical and manufacturing properties and preserving FcRn-mediated half-life. Species-matched chimeric antibodies demonstrate reduced immunogenicity and formation of anti-drug antibodies (ADAs) compared to xenogenic antibodies in animal models. The highly controlled sequence and lack of genetic drift in recombinant antibodies provide more reliable and reproducible results over hybridoma derived antibodies. The G23-8-CP240 monoclonal antibody reacts with the p19 subunit of mouse IL-23. IL-23 is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12. IL-23 is secreted by activated dendritic cells and macrophages. IL-23 has been shown to enhance IFN γ production by memory T cells. Additionally, mouse IL-23 induces the proliferation of memory T cells (but not naive T cells), whereas IL-12 has no effect on memory cells. Mouse IL-23 (but not IL-12) can also activate mouse memory T cells to produce the potent proinflammatory cytokine IL-17. IL-23/Th17 signaling drives chronic inflammation in autoimmune conditions such as plaque psoriasis, psoriatic arthritis, Crohn's disease, IBD and ulcerative colitis. The G23-8 antibody can specifically neutralize mouse IL-23 bioactivity with no effect on IL-12 p70 bioactivity, neutralizing a key upstream driver of the Th17 inflammatory axis.

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-23-p19-lala-pg-cp240?utm_source=cr9k1b#tab_references or scan the QR code below.



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