

Technical Data Sheet

InVivoMAb anti-mouse IL-21R



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 Information

Catalog Number: BE0258
Clone: 4A9
Isotype: Rat IgG2a, κ
Recommended Isotype Control(s): InVivoMAb rat IgG2a isotype control, anti-trinitrophenol
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Rat YB2/0 cell line expressing truncated IL-21 R
Reported Applications: *in vivo* IL-21R blockade
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <2EU/mg (<0.002EU/ μ g)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μ m filtered
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
RRID: [AB_2687737](https://abnova.com/AB_2687737)
Molecular Weight: 150 kDa

Description

The 4A9 monoclonal antibody reacts with mouse IL-21 receptor (IL-21 R) also known as CD360. IL-21 R is a member of the type 1 cytokine receptor family that forms a functional heterodimeric receptor complex with the common gamma chain (CD132). IL-21 R is expressed on both resting and activated B cells, T cells, NK cells and dendritic cells. Upon IL-21 binding, IL-21 R activates downstream Jak-1, Jak-3, STAT1, STAT3 and STAT 5 signal transduction pathways to induce the proliferation and differentiation of T lymphocytes, B lymphocytes, and NK cells. The 4A9 antibody has been shown to block the biological activity of IL-21 R *in vivo*.

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/catalogsearch/result/?q=BE0258#tab_references or scan the QR code below.



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