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/µg) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 µm filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	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/be0258?bxcs=9k1b3a#tab_references or scan the QR code below.

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