Technical Data Sheet

InVivoMAb anti-rat CD4

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: BE0308
Clone: OX-38
Isotype: Mouse IgG2a, κ
Recommended Isotype Control(s): InVivoMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Rat thymocyte glycoproteins
Reported Applications: in vivo CD4⁺ T cell depletion
Flow cytometry
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
<2EU/mg (<0.002EU/μg)
Determined by LAL gel clotting assay
>95%
Determined by SDS-PAGE
Purity: 0.2 μM filtered
Sterility: Purified from tissue culture supernatant in an animal free facility
Production: Protein A
Purification:
RRID: AB_2736988
Molecular Weight: 150 kDa

Description

The OX-38 monoclonal antibody reacts with the rat CD4. The CD4 antigen is a 55 kDa cell surface type I membrane glycoprotein belonging to the immunoglobulin superfamily. CD4 acts as a co-receptor which in cooperation with the T cell receptor (TCR) interacts with class II MHC molecules displayed by antigen presenting cells (APC). CD4 is expressed by the majority of thymocytes, most helper T cells, a subset of NK-T cells and weakly by dendritic cells and macrophages. CD4 plays an important role in the development of T cells and is required for mature T cells to function optimally. The OX-38 antibody has been reported to deplete CD4⁺ T cells in vivo.

Shelf-life and Storage

Store at the stock concentration at 4°C. Do not freeze.
All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 bxcell.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://bxcell.com/product/invivomab-anti-rat-cd4/#references or scan the QR code below.

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