

Technical Data Sheet

InVivoMAb anti-mouse V β 8 TCR



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: BE0182
Clone: F23.1
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: BALB.B Mouse lymph node and spleen T cells
Reported Applications: Flow cytometry
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_10950392](https://abnova.com/AB_10950392)
Molecular Weight: 150 kDa

Description

The F23.1 monoclonal antibody reacts with the V β 8.1, V β 8.2, and V β 8.3 TCR (V beta 8.1-3 T cell receptors) of mice having the b haplotype of the Tcrb gene complex (e.g., AKR, BALB/c, C3H, C57BL, DBA/1, DBA/2). The TCR is expressed on the surface of T lymphocytes and is responsible for recognizing fragments of antigen as peptides bound to MHC molecules. When the TCR engages with antigenic peptide and MHC the T lymphocyte is activated through signal transduction. The F23.1 antibody has been shown to activate V β 8 TCR-expressing T lymphocytes, as well as block cytotoxicity mediated by V β 8 TCR-expressing cytotoxic T lymphocytes. Additionally, in vivo treatment of neonatal mice with the F23.1 antibody can arrest intrathymic maturation of V β 8 TCR-expressing T cells.

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=BE0182#tab_references or scan the QR code below.



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