Technical Data Sheet

InVivoMAb anti-mouse Vβ8 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:	≤1EU/mg (≤0.001EU/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_10950392
Molecular Weight:	150 kDa

Description

The F23.1 monoclonal antibody reacts with the Vβ 8.1, Vβ 8.2, and Vβ 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 Vβ 8 TCR-expressing T lymphocytes, as well as block cytolysis mediated by Vβ 8 TCR-expressing cytotoxic T lymphocytes. Additionally, in vivo treatment of neonatal mice with the F23.1 antibody can arrest intrathymic maturation of Vβ 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/be0182?bxcs=9k1b3a#tab_references or scan the QR code below.

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