

Technical Data Sheet

InVivoMAb anti-rat β -2-Microglobulin



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: BE0143
Clone: 4C9
Isotype: Mouse IgG1
Recommended Isotype Control(s): InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Soluble neonatal Fc receptor (FcRn)
Reported Applications: *in vitro* β 2M 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_10951294](https://abnova.com/AB_10951294)
Molecular Weight: 150 kDa

Description

The 4C9 monoclonal antibody reacts with rat beta 2 microglobulin (β 2M) a 12 kDa component of MHC class I molecules. β -2-microglobulin, a non-membrane-anchored glycoprotein, noncovalently associates with the polymorphic heavy chain of MHC class I molecules to form the HLA class I antigen complex. β -2-microglobulin is expressed on all leukocytes, platelets, endothelial cells and epithelial cells and plays an essential role in mediating proper folding and expression of MHC class I molecules. The importance of β -2-microglobulin is illustrated by β -2-microglobulin knockout mice which show a normal distribution of T lymphocytes, but have no mature CD4 or CD8 T cells and are therefore defective in CD4 and CD8 T cell-mediated cytotoxicity. The 4C9 antibody recognizes rat β -2-microglobulin alone or complexed with FcRn heavy chains.

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=BE0143#tab_references or scan the QR code below.



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