

InVivoMAb anti-mouse CD16.2 (FcγRIV)



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://bxcell.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:	BE0378
Clone:	9E9
Isotype:	Armenian Hamster IgG
Recommended Isotype Control(s):	InVivoMAb polyclonal Armenian hamster IgG
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Mouse FcγRIV extracellular domain-mouse IgG1 Fc fusion protein
Reported Applications:	<i>in vivo</i> CD16.2 blockade <i>in vitro</i> CD16.2 blockade Flow cytometry
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 tissue culture supernatant in an animal free facility
Purification:	Protein A
Molecular Weight:	150 kDa

Description

The 9E9 monoclonal antibody reacts with mouse CD16.2, also known as FcγRIV (Fc receptor, IgG, low affinity IV). CD16.2 is a member of the immunoglobulin superfamily and is expressed on monocytes, macrophages, dendritic cells, and neutrophils. Fcγ receptors are essential for IgG-dependent effector functions *in vivo*. CD16.2 requires the common Fcγ chain for expression and signaling. CD16.2 binds to IgG2a and IgG2b with intermediate affinity. IgG2a- and IgG2b-dependent effector functions are severely impaired in CD16.2 deficient mice. CD16.2 has also been reported to be a low-affinity IgE receptor for all IgE allotypes and promotes IgE-induced lung inflammation. The 9E9 antibody has been shown to inhibit cellular CD16.2 function.

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](https://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-mouse-cd16-2-fc%ce%b3riv/#references> or scan the QR code below.

Bio X Cell, Inc.



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