Technical Data Sheet

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://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:	**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:	*in vivo* CD16.2 blockade *in vitro* CD16.2 blockade 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 filtration
Purification:	Protein A
RRID:	AB_2927515
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.

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/be0378?bxcs=9k1b3a#tab_references or scan the QR code below.

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