Technical Data Sheet

InVivoMAb anti-mouse RGMb

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:	**BE0400**
Clone:	**307.9D1**
Isotype:	Rat IgG2a, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG2a isotype control, anti-trinitrophenol
Recommended Dilution Buffer:	InVivoPure pH 6.0T Dilution Buffer
Immunogen:	Recombinant murine RGMb
Reported Applications:	*in vivo* RGMb blockade ELISA Flow cytometry
Formulation:	PBS, pH 6.0 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
Molecular Weight:	150 kDa

Description

The 307.9D1 monoclonal antibody reacts with mouse Repulsive Guidance Molecule b (RGMb), a member of the RGM family which consists of RGMa, RGMb, and RGMc/hemojuvelin. RGMs are GPI-anchored membrane proteins that bind bone morphogenetic proteins (BMPs) and neogenin. BMPs have diverse roles in many processes, including cell proliferation, differentiation, and apoptosis. RGMb has a well-elucidated role in neural development, with RGMb knock-out mice dying 2-3 weeks after birth. RGMb is also expressed by macrophages and can regulates IL-6 expression. Recently, it has been shown that PD-L2 also binds to RGMb and that blocking the RGMb–PD-L2 interaction impairs the development of respiratory tolerance but blocking the PD-1–PD-L2 interaction does not. The 307.9D1 antibody has been shown to block the binding of RGMb to PD-L2 and BMP-2/4.

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

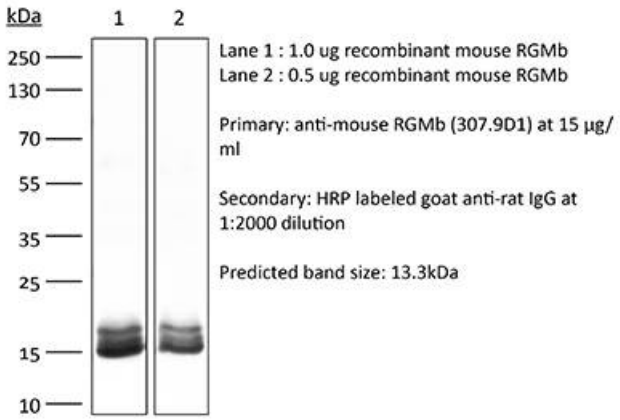
dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0400?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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