

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: BP0307
Clone: 2.4G2
Isotype: Rat IgG2b, κ
Recommended Isotype Control(s): InVivoPlus rat IgG2b isotype control, anti-keyhole limpet hemocyanin
Recommended Dilution Buffer: InVivoPure pH 8.0 Dilution Buffer
Immunogen: BALB/c mouse macrophage cell line J774
Reported Applications: *in vivo* Fc receptor blocking
Fc receptor blocking, flow cytometry
Fc receptor blocking, immunofluorescence
Formulation: PBS, pH 8.0
Contains no stabilizers or preservatives
Endotoxin: <1EU/mg (<0.001EU/ μ g)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
Aggregation: <5%
Determined by SEC
RRID: [AB_2736987](https://www.ebi.ac.uk/rrid/AB_2736987)
Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The 2.4G2 monoclonal antibody reacts specifically with mouse CD16 (Fc γ RIII) and CD32 (Fc γ RII). It has also been reported to react non-specifically via its Fc domain to Fc γ RI. CD16 and CD32 are expressed on B cells, monocytes/macrophages, NK cells, granulocytes, mast cells, and dendritic cells. These receptors bind to the Fc portion of antibody-antigen complexes and play a role in adaptive immune responses. The 2.4G2 antibody is commonly used in flow cytometry and immunofluorescence staining experiments to prevent non-specific binding of the Fc portion of IgG to the Fc γ III and Fc γ II, and possibly Fc γ I, receptors prior to staining with antigen specific primary antibodies. The complete antibody and Fab fragments of the 2.4G2 antibody have also been used to block Fc receptors *in vivo*. Note that when 2.4G2 is used for Fc blocking in

immunoassays and an anti-IgG secondary-step is necessary, the secondary antibody must not be anti-rat IgG2b.

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

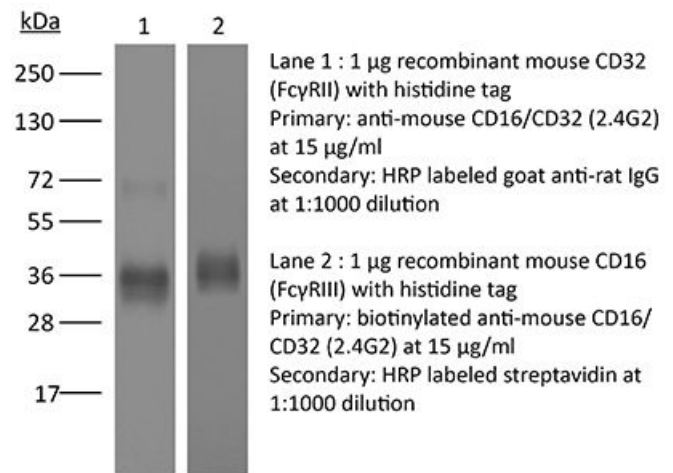
https://bioxcell.com/bp0307?bxcs=9k1b3a#tab_references

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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