Technical Data Sheet

InVivoPlus anti-mouse CD16/CD32

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 Immunofluorescence
Formulation:	PBS, pH 8.0 Contains no stabilizers or preservatives
Endotoxin:	≤0.5EU/mg (≤0.0005EU/μg) Determined by LAL assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
Aggregation:	<5% Determined by SEC
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 (FcγRIII) and CD32 (FcγRII). It has also been reported to react non-specifically via its Fc domain to FcγRI. 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 FcγIII and FcγII, and possibly FcγI, 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

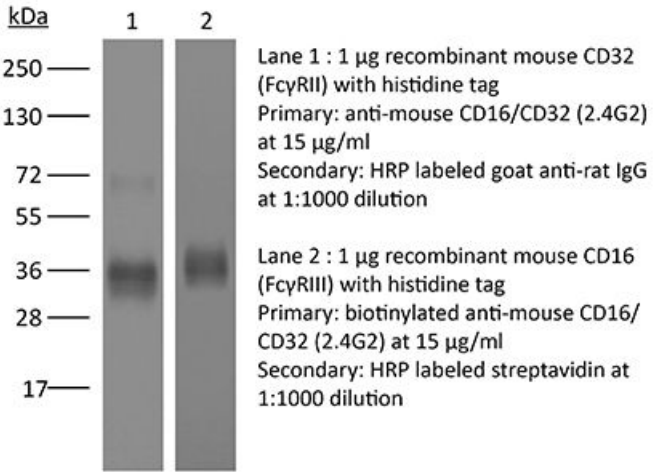
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

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.



Bio X Cell, LLC
https://bioxcell.com
+1-866-787-3444
customerservice@bioxcell.com

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