

# Technical Data Sheet

## RecombiMAb 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:** CP025  
**Clone:** 2.4G2-CP025  
**Isotype:** Mouse IgG2a,  $\kappa$   
**Recommended Isotype Control(s):** InVivoPlus mouse IgG2a isotype control, unknown specificity  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:** BALB/c mouse macrophage cell line J774  
**Reported Applications:** *in vitro* Fc receptor blocking\*  
*in vivo* Fc receptor blocking\*  
\*Reported for the original rat IgG2b 2.4G2 antibody

**Formulation:** PBS, pH 7.0  
Contains no stabilizers or preservatives

**Endotoxin:** <1EU/mg (<0.001EU/ $\mu$ g)  
Determined by LAL gel clotting assay

**Purity:** >95%  
Determined by SDS-PAGE

**Sterility:** 0.2  $\mu$ m filtration

**Production:** Purified from HEK293 cell supernatant in an animal-free facility

**Purification:** Protein G

**Aggregation:** <5%  
Determined by SEC

**RRID:**  
**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-CP025 monoclonal antibody is a chimeric version of the original 2.4G2 antibody. The variable domain sequences are identical to the original 2.4G2 but the constant region sequences have been switched from rat IgG2b to mouse IgG2a. The 2.4G2-CP025 antibody contains no Fc mutations just as the original rat IgG2b antibody does not. 2.4G2-CP025 reacts specifically with mouse CD16 (Fc $\gamma$ RIII) and CD32 (Fc $\gamma$ RII). It has also been reported to react non-specifically via its Fc domain to Fc $\gamma$ 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 staining experiments to prevent non-specific binding of IgG to the FcγIII and FcγII, and possibly FcγI, receptors prior to staining with antigen specific primary antibodies. The Fab fragments of the 2.4G2 antibody have also been used to block Fc receptors in vivo.

## 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.

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### Bio X Cell, LLC

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*Not for resale.*

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