

# Technical Data Sheet

RecombiMAb mouse IgG2a isotype control, unknown specificity



**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:** CP160  
**Clone:** MOPC-21-CP160  
**Isotype:** Mouse IgG1,  $\kappa$   
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Mutations:** D265A  
**Immunogen:** Mouse CD223-Ig fusion protein  
**Reported Applications:** *in vivo* LAG-3 neutralization\*  
*in vitro* LAG-3 neutralization\*  
Flow cytometry\*  
Western blot\*  
\*Reported for the original rat IgG1 C9B7W 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 CHO cell supernatant in an animal-free facility

**Purification:** Protein G

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

**RRID:** [AB\\_2927528](https://abnova.com/AB_2927528)

**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 C9B7W-CP013 monoclonal antibody is a chimeric version of the original C9B7W antibody. The variable domain sequences are identical to the original C9B7W but the constant region sequences have been switched from rat IgG1 to mouse IgG1. The C9B7W-CP013 antibody also contains a D265A mutation in the Fc fragment rendering it unable to bind to

endogenous Fcγ receptors.. C9B7W-CP013 reacts with mouse LAG-3 also known as CD223. LAG-3 is a 70 kDa type I transmembrane glycoprotein encoded by the Lag3 gene that belongs to the immunoglobulin superfamily. LAG-3 is expressed by activated T lymphocytes, NK cells, and T regulatory cells. LAG-3's main ligand is MHC class II which it binds to with a higher affinity than even CD4 does. Upon binding LAG-3 is thought to play similar roles as CTLA-4 and PD-1 including downregulation of TCR signaling and inhibition of CD4-dependent T cell function. LAG-3 has also been demonstrated to contribute to the suppressor function of T regulatory cells. In contrast to inhibition, LAG-3 has been shown to promote immune responses by activating antigen-presenting cells. The C9B7W antibody has been reported to block the function of murine LAG-3 in vivo and in vitro but studies suggest that the antibody does not block binding of LAG-3 to MHC class II.

## 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/catalogsearch/result/?q=CP160#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=CP160#tab_references) or scan the QR code below.



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