

Technical Data Sheet

RecombiMAb anti-mouse LAG3 (LALA-PG)



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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: CP211
Clone: C9B7W-CP211
Isotype: Mouse IgG2a (LALA-PG), κ
Recommended Isotype Control(s): RecombiMAb mouse IgG2a (LALA-PG) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: LALA-PG
Immunogen: Mouse CD223-Ig fusion protein
Reported Applications: ELISA
in vivo LAG-3 neutralization
in vitro LAG-3 neutralization
Flow cytometry
Western blot
*Reported for the original C9B7W antibody.
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from mammalian cell supernatant in an animal-free facility
Purification: Protein A
Aggregation: $< 5\%$
Determined by SEC
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-CP211 monoclonal antibody is a recombinant version of the original C9B7W clone. The variable domain sequences are identical but the constant region sequences have been switched from Rat IgG1, κ to mouse IgG2a, κ for use in murine models. Additionally, the constant region includes the Fc silencing mutation variant LALA-PG, rendering it unable

to bind endogenous murine Fcγ receptors or C1q to induce antibody-dependent cell-mediated cytotoxicity (ADCC) or complement-dependent cytotoxicity (CDC). C9B7W-CP211 is useful to evaluate pure LAG3 blockade without causing Fc-dependent LAG3+ cell depletion or other effector functions. Fc-silent antibodies can also improve in-vitro assays by reducing non-specific signaling and background. The LALA-PG variant has demonstrated significantly reduced effector function, C1q binding and C3 fixation compared to other common silencing mutations while retaining favorable biophysical and manufacturing properties and preserving FcRn-mediated half-life. The highly controlled sequence and lack of genetic drift in recombinant antibodies provide more reliable and reproducible results over hybridoma derived antibodies. The C9B7W-CP211 monoclonal antibody 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 [?utm_source=cr9k1b#tab_references](https://bioxcell.com/references/?utm_source=cr9k1b#tab_references) or scan the QR code below.



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