

Technical Data Sheet

RecombiMAb anti-mouse TIGIT (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 Website Link: <https://bioxcell.com/recombimab-anti-mouse-tigit-lala-pg-cp119>

Product Information

Catalog Number: CP119
Clone: 1G9-CP119
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 TIGIT
Reported Applications: ELISA
Flow cytometry*
*Reported for the original 1G9 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 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 1G9-CP119 monoclonal antibody is a recombinant, chimeric version of the original 1G9 antibody. The variable domain sequences are identical but the constant region sequences are switched from Mouse IgG1, κ to mouse IgG2a, κ . Additionally, 1G9-CP119 contains LALA-PG mutations in the heavy chain Fc fragment rendering it unable to bind endogenous murine Fc γ receptors or C1q to induce antibody-dependent, cell-mediated cytotoxicity (ADCC) or complement-

dependent cytotoxicity (CDC). The LALA-PG variant has demonstrated significantly reduced effector function, C1q binding and C3 fixation compared to other common silencing mutations such as the LALA and DANG variants while retaining favorable biophysical and manufacturing properties. Silencing of anti-TIGIT effector function has been shown to retain checkpoint-blocking activity while minimizing Fc-driven depletion of immune cells and promoting antitumor immunity. The highly controlled sequence and lack of genetic drift in recombinant antibodies provide more reliable and reproducible results over hybridoma derived antibodies. The 1G9-CP119 antibody reacts with mouse TIGIT (T cell immunoreceptor with Ig and ITIM domains). TIGIT is a 26 kDa, type I transmembrane protein and a member of the poliovirus receptor (PVR) family. TIGIT has been found to be expressed on follicular T helper cells in mice while in humans it's expressed by many T cell subsets including activated T cells, follicular T helper cells, memory T cells, and regulatory T cells as well as on NK cells. TIGIT can interact with certain members of the PVR and PVR-like families, including PVR, PVRL2, PVRL3, CD155, and CD112. TIGIT is thought to negatively regulate NK and T cell activation. Binding TIGIT on T cells by dendritic cells results in their differentiation into a tolerogenic phenotype, with increased secretion of IL-10 and diminished production of IL-12. TIGIT knock-out mice are more susceptible to autoimmune disease.

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/recombimab-anti-mouse-tigit-lala-pg-cp119?utm_source=cr9k1b#tab_references or scan the QR code below.



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