Technical Data Sheet

RecombiMAb anti-mouse GITR (LALA-PG)



<u>Attention</u>: 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: CP031

 Clone:
 DTA-1-CP031

 Isotype:
 Mouse IgG2b, κ

Recommended Isotype Control(s): RecombiMAb mouse IgG2b (LALA-PG) isotype control, anti-hen egg lysozyme

Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer

Mutations: LALA-PG

Immunogen:Mouse CD25+ CD4+ T cellsReported Applications:in vivo GITR stimulation*

*Reported for the original rat lgG2b DTA-1 antibody

Formulation: PBS, pH 7.0

Contains no stabilizers or preservatives

Endotoxin: <1EU/mg (<0.001EU/μg)

Determined by LAL gel clotting assay

Purity: >95%

Determined by SDS-PAGE

Sterility: 0.2 µm 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 DTA-1-CP031 monoclonal antibody is a chimeric version of the original DTA-1 antibody. The variable domain sequences are identical to the original DTA-1 but the constant region sequences have been switched from rat lgG2b to mouse lgG2b. The DTA-1-CP031 antibody also contains a LALA-PG mutation in the Fc fragment rendering it unable to bind to endogenous Fcγ receptors. The DTA-1-CP031 antibody reacts with mouse GITR (glucocorticoid-induced TNFR-related gene), a 66-70 kDa co-stimulatory immune checkpoint molecule belonging to the Tumor Necrosis Factor superfamily

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(TNFRSF18). GITR is expressed at low levels on resting T lymphocytes and at high levels on regulatory T cells. GITR is upregulated on activated T cells where it provides co-stimulation. GITR ligand (GITRL) is found on B cells, macrophages, dendritic and endothelial cells, and is implicated in regulating both innate and adaptive immune responses. GITR is also thought to play a key role in dominant immunological self-tolerance maintained by regulatory T cells. Knockout studies in mice also suggest the role of this receptor is in the regulation of CD3-driven T cell activation and programmed cell death. The DTA-1 antibody is an agonistic antibody that is commonly used to induce GITR signaling 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/fags.

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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