

Technical Data Sheet

RecombiMAb anti-mouse 4-1BBL (CD137L) (D265A)



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: CP039
Clone: TKS-1-CP039
Isotype: Mouse IgG1, κ
Recommended Isotype Control(s): RecombiMAb mouse IgG1 (D265A) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: D265A
Immunogen: Mouse 4-1BBL transfected NRK cells
Reported Applications: *in vivo* 4-1BBL blockade*
ELISA*
*Reported for the original rat IgG2a TKS-1 antibody
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <1EU/mg (<0.001EU/ μ g)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μ 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 TKS-1-CP039 monoclonal antibody is a chimeric version of the original TKS-1 antibody. The variable domain sequences are identical to the original TKS-1 but the constant region sequences have been switched from rat IgG2a to mouse IgG1. The TKS-1-CP039 antibody also contains a D265A mutation in the Fc fragment rendering it unable to bind to endogenous Fc γ receptors. The TKS-1-CP039 monoclonal antibody reacts with mouse 4-1BB ligand (4-1BBL), a type II

transmembrane glycoprotein also known as CD137L. 4-1BBL is a 97 kDa member of the TNF superfamily and is expressed by dendritic cells, macrophages, and activated B and T lymphocytes. Interaction of 4-1BBL with 4-1BB (CD137) provides costimulatory signals to both CD4 and CD8 T cells through the activation of NF- κ B, c-Jun and p38 downstream pathways. The TKS-1 antibody has been shown to inhibit the binding of soluble 4-1BB to 4-1BBL in vitro.

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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