

Technical Data Sheet

RecombiMAb anti-mouse CD25 (IL-2R α)



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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-cd25-il-2r-alpha-cp201>

Product Information

Catalog Number: CP201
Clone: 7D4-CP201
Isotype: Mouse IgG2a, κ
Recommended Isotype Control(s): RecombiMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: HT-2 cell line
Reported Applications: *in vivo* CD25⁺ Treg depletion (non-IL-2-blocking)
in vitro functional assay
Immunoprecipitation*
Flow cytometry*
*Reported for the original clone 7D4
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
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 7D4-CP201 monoclonal antibody (α CD25NIB) is a recombinant mouse IgG2a isotype variant of the anti-mouse IL-2R α clone 7D4 that reacts with the mouse interleukin-2 receptor alpha subunit (IL-2R α) without blocking IL-2 signaling. IL-2R α is a 55 kDa ligand-binding subunit (low-affinity monomer), and by itself, this transmembrane glycoprotein does not act as a

signaling receptor. It forms a heterotrimeric receptor complex with IL-2R β (CD122) and the common γ chain (γ c/CD132) to form the high-affinity signaling IL-2 receptor. IL-2R α is also known as p55, IL-2R, Ly-43, and Tac antigen. It is expressed on activated mature T and B lymphocytes, thymocyte subsets, pre-B cells, and T regulatory cells (Tregs). IL-2R α plays roles in lymphocyte differentiation, activation, and proliferation. IL-2R α regulates immune tolerance by controlling the activity of Tregs that actively suppress autoimmune responses and maintain immune homeostasis (by suppressing autoreactive T-cells). Because of its constitutive high expression on Treg versus Teff cells, IL-2R α is considered a selective target for Treg depletion in tumor immunotherapy. Unlike conventional CD25 antibodies such as PC61 or the original clone 7D4 (IgM), the 7D4-CP201 antibody - featuring the 7D4 variable region on a mouse IgG2a backbone - is widely used as a CD25+ cell-depleting, non-IL-2-blocking antibody (α CD25NIB). It enables selective depletion of CD4+FoxP3+ Tregs without disrupting IL-2 signaling in effector T cells, thereby preserving IL-2/STAT5 activity and enhancing antitumor immunity, including improved responses to cancer vaccines and PD-1 therapy.

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-cd25-il-2r-alpha-cp201?utm_source=cr9k1b#tab_references or scan the QR code below.



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