Technical Data Sheet

InVivoMAb anti-mouse CD25 (IL-2Rα)

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:	**BE0012**
Clone:	**PC-61.5.3**
Isotype:	Rat IgG1, λ
Recommended Isotype Control(s):	InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	IL-2-dependent cytolytic mouse T cell clone B6.1
Reported Applications:	*in vivo* regulatory T cell depletion Flow cytometry
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 cell culture supernatant in an animal-free facility
Purification:	Protein A High Salt
RRID:	AB_1107619
Molecular Weight:	150 kDa

Description

The PC-61.5.3 monoclonal antibody reacts with mouse IL-2Rα also known as CD25, Ly-43, p55, or Tac. IL-2Rα is the 55 kDa ligand-binding subunit of the interleukin 2 receptor alpha chain. IL-2Rα is expressed on activated mature T and B lymphocytes, thymocyte subsets, pre-B cells, and T regulatory cells. IL-2Rα has been shown to play roles in lymphocyte differentiation, activation, and proliferation. Alone, the IL-2Rα binds IL-2 with relatively low affinity however, when IL-2Rα associates with IL-2Rβ (CD122) and the common gamma chain (CD132) the complex binds IL-2 with high affinity. The PC-61.5.3 antibody has been shown to inhibit the binding of IL-2 to both the low and high affinity IL-2 receptor forms. Additionally, the PC-61.5.3 antibody is commonly used to deplete CD4+FoxP3+ T regulatory cells 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/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

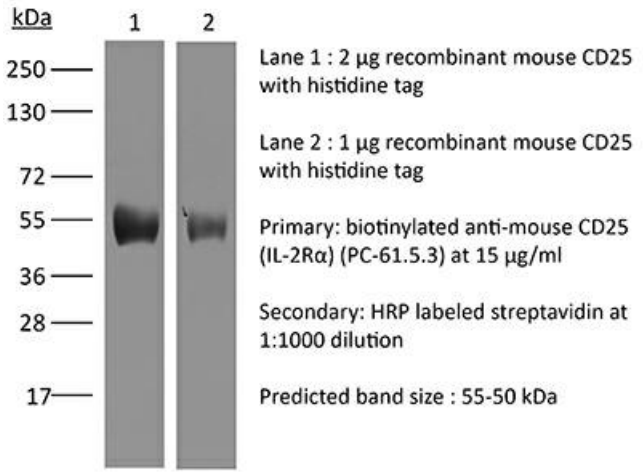
experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0012?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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