

# Technical Data Sheet

## InVivoMAb anti-mouse CD25 (IL-2R $\alpha$ )



**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,  $\lambda$   
**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:** <2EU/mg (<0.002EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
**Purity:** >95%  
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m filtration  
**Production:** Purified from cell culture supernatant in an animal-free facility  
**Purification:** Protein A High Salt  
**RRID:** [AB\\_1107619](https://abnova.com/AB_1107619)  
**Molecular Weight:** 150 kDa

### Description

The PC-61.5.3 monoclonal antibody reacts with mouse IL-2R $\alpha$  also known as CD25, Ly-43, p55, or Tac. IL-2R $\alpha$  is the 55 kDa ligand-binding subunit of the interleukin 2 receptor alpha chain. IL-2R $\alpha$  is expressed on activated mature T and B lymphocytes, thymocyte subsets, pre-B cells, and T regulatory cells. IL-2R $\alpha$  has been shown to play roles in lymphocyte differentiation, activation, and proliferation. Alone, the IL-2R $\alpha$  binds IL-2 with relatively low affinity however, when IL-2R $\alpha$  associates with IL-2R $\beta$  (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.

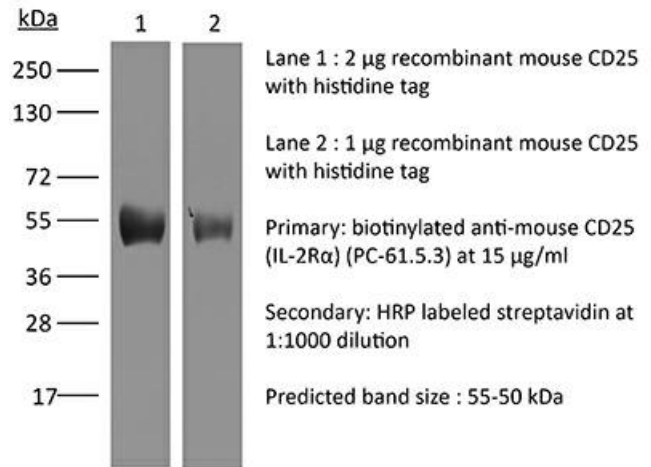
## Application References

For a complete list of references, visit [https://bioxcell.com/catalogsearch/result?q=BE0012#tab\\_references](https://bioxcell.com/catalogsearch/result?q=BE0012#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](mailto:technicalservice@bioxcell.com).



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*Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.*

*Not for resale.*

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