

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

### Lot Specific Information

<b>Lot Number:</b>	Lot Specific*
<b>Volume:</b>	Lot Specific*
<b>Concentration:</b>	Lot Specific* (generally 4 to 11 mg/ml) *
<b>Total Protein:</b>	Lot Specific*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

<b>Catalog Number:</b>	<b>BE0012</b>
<b>Clone:</b>	<b>PC-61.5.3</b>
<b>Isotype:</b>	Rat IgG1, $\lambda$
<b>Recommended Isotype Control(s):</b>	InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase
<b>Recommended Dilution Buffer:</b>	InVivoPure pH 7.0 Dilution Buffer
<b>Immunogen:</b>	IL-2-dependent cytolytic mouse T cell clone B6.1 <i>in vivo</i> regulatory T cell depletion
<b>Reported Applications:</b>	Flow cytometry
<b>Formulation:</b>	PBS, pH 7.0 Contains no stabilizers or preservatives
<b>Endotoxin:</b>	<2EU/mg (<0.002EU/ $\mu$ g) Determined by LAL gel clotting assay
<b>Purity:</b>	>95% Determined by SDS-PAGE
<b>Sterility:</b>	0.2 $\mu$ M filtered
<b>Production:</b>	Purified from tissue culture supernatant in an animal free facility
<b>Purification:</b>	Protein A High Salt
<b>RRID:</b>	AB_1107619
<b>Molecular Weight:</b>	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*.

### Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 [bxcell.com/faqs](https://bxcell.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://bxcell.com/product/m-cd25/#references> or scan the QR code below.

### Bio X Cell, Inc.

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