

## InVivoMAb anti-mouse/human IL-7

### 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>BE0048</b>
<b>Clone:</b>	<b>M25</b>
<b>Isotype:</b>	Mouse IgG2b
<b>Recommended Isotype Control(s):</b>	InVivoMAb mouse IgG2b isotype control, unknown specificity
<b>Recommended Dilution Buffer:</b>	InVivoPure pH 7.0 Dilution Buffer
<b>Immunogen:</b>	Recombinant human IL-7
<b>Reported Applications:</b>	<i>in vivo</i> IL-7 neutralization <i>in vivo</i> IL-7 receptor stimulation (as a complex with IL-7)
<b>Formulation:</b>	PBS, pH 7.0 Contains no stabilizers or preservatives
<b>Endotoxin:</b>	<2EU/mg (<0.002EU/μg) Determined by LAL gel clotting assay
<b>Purity:</b>	>95% Determined by SDS-PAGE
<b>Sterility:</b>	0.2 μM filtered
<b>Production:</b>	Purified from tissue culture supernatant in an animal free facility
<b>Purification:</b>	Protein G
<b>RRID:</b>	AB_1107711
<b>Molecular Weight:</b>	150 kDa

### Description

The M25 monoclonal antibody reacts with mouse and human IL-7, a 20-28 kDa hematopoietic growth factor secreted by stromal cells in the bone marrow and thymus. IL-7 is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells. IL-7 binds to the IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and the common gamma chain receptor. Binding results in stimulation of differentiation of pluripotent hematopoietic stem cells into lymphoid progenitor cells and proliferation of all lymphoid cells. IL-7 is also important for proliferation of pre-B cells as well as T and NK cell survival, development and homeostasis. The M25 antibody is useful for neutralizing the bioactivity of IL-7 as well as administration of IL-7 cytokine. IL-7 administration as a complex with M25 prolongs IL-7 availability *in vivo* by decreasing specific and nonspecific consumption.

### 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-h-il-7/#references> or scan the QR code below.

### Bio X Cell, Inc.

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