# Technical Data Sheet

## InVivoMAb anti-rat 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

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|---|---|
| **Catalog Number:** | **BE0453** |
| **Clone:** | **OX-39** |
| **Isotype:** | Mouse IgG1, κ |
| **Recommended Isotype Control(s):** | InVivoMAb mouse IgG1 isotype control, unknown specificity |
| **Recommended Dilution Buffer:** | InVivoPure pH 7.0 Dilution Buffer |
| **Immunogen:** | T blasts from a mixed lymphocyte reaction between purified CD4+ T cells and irradiated spleens |
| **Reported Applications:** | *in vivo* functional assays<br>*in vitro* functional assays<br>Immunohistochemistry (paraffin)<br>Immunohistochemistry (frozen)<br>Immunoprecipitation<br>Flow cytometry |
| **Formulation:** | PBS, pH 7.0<br>Contains no stabilizers or preservatives |
| **Endotoxin:** | <2EU/mg (<0.002EU/μg)<br>Determined by LAL gel clotting assay |
| **Purity:** | >95%<br>Determined by SDS-PAGE |
| **Sterility:** | 0.2 μm filtered |
| **Production:** | Purified from cell culture supernatant in an animal-free facility |
| **Purification:** | Protein G |
| **RRID:** | |
| **Molecular Weight:** | 150 kDa |

## Description

The OX-39 monoclonal antibody recognizes the 55 kDa low-affinity interleukin-2 receptor α chain (IL-2R α), also known as CD25 and OX-39 antigen. CD25 binds interleukin-2 (IL-2) with low affinity, but after interacting with IL-2Rβ (CD122) and IL-2Rγc (CD132), it forms a high-affinity receptor complex for IL-2 (i.e., a high-affinity IL-2 receptor). In rats, the CD25 antigen is expressed on T blasts, antigen-activated T cells, B cells, and a subset of thymic and splenic dendritic cells. CD25 plays an important role in immune tolerance regulation by controlling the activity of regulatory T cells (Tregs), which suppress the activation and expansion of autoreactive T cells. The OX-39 antibody is commonly used as a marker for Tregs, but studies have shown a subset of Tregs not expressing CD25. This antibody is reported to weakly inhibit the IL-2-induced proliferation in vitro and allograft rejection 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/be0453?bxcs=9k1b3a#tab_references or scan the QR code below.

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