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

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 *in vitro* functional assays Immunohistochemistry (paraffin) Immunohistochemistry (frozen) Immunoprecipitation 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 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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