

Technical Data Sheet

RecombiMAb anti-mouse OX40 (CD134) (LALA-PG)



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: CP018
Clone: OX86-CP018
Isotype: Mouse IgG2a, κ
Recommended Isotype Control(s): RecombiMAb mouse IgG2a (LALA-PG) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: LALA-PG
Immunogen: Recombinant mouse OX40-CD4 chimeric protein
Reported Applications: *in vivo* OX40 activation*
in vitro OX40 activation*
Western blot*
*Reported for the original rat IgG1 OX-86 antibody

Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives

Endotoxin: <1EU/mg (<0.001EU/ μ g)
Determined by LAL gel clotting assay

Purity: >95%
Determined by SDS-PAGE

Sterility: 0.2 μ m filtration

Production: Purified from HEK293 cell supernatant in an animal-free facility

Purification: Protein G

Aggregation: <5%
Determined by SEC

RRID:
Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The OX86-CP018 monoclonal antibody is a chimeric version of the original OX-86 antibody. The variable domain sequences are identical to the original OX-86 but the constant region sequences have been switched from rat IgG1 to mouse IgG2a. The OX86-CP018 antibody also contains a LALA-PG mutation in the Fc fragment rendering it unable to bind to

endogenous Fcγ receptors.. OX86-CP018 reacts with mouse OX-40 also known as CD134. OX-40 is a 50 kDa type I membrane glycoprotein and a member of the TNF receptor superfamily. OX-40 is expressed on activated CD4 and CD8 T cells, but is not found on resting naïve T cells or most resting memory T cells. Although it was originally thought that OX-40 expression was restricted to activated conventional T cells, it has now been visualized on activated regulatory T cells, NKT cells, NK cells, and neutrophils. OX-40 plays a major role in regulating both CD4 and CD8 T cell clonal expansion. It provides a costimulatory signal to an antigen-reacting naïve T cells to prolong proliferation, as well as augment the production of several cytokines. This is demonstrated by OX-40 knockout mice which generate fewer primary effector CD4 T cells after immunization. Furthermore, in vivo treatment with an agonist antibody to OX-40 has been shown to strongly enhance the generation of antigen-specific effector T cells and prevent the induction of T cell tolerance. The OX-86 antibody is an agonistic antibody that has been shown to delay tumor growth 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.

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